Form 3160-3
(August, 2007)

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: UTU-0575

6. If Indian, Allottee or Tribe Name: UTE

7. If Unit or CA Agreement, Name and No.: 891008900A

1a. Type of Work: [X] DRILL [ ] REENTER

1b. Type of Well: [ ] [X] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No.: NBU 921-20IT

2. Name of Operator: Kerr-McGee Oil & Gas Onshore, LP

9. API Well No.: 43-047-40136

3a. Address: P.O. Box 173779, Denver, CO 80217-3779

3b. Phone No. *(include area code)*: 720.929.6226

10. Field and Pool, or Exploratory: Natural Buttes Field

4. Location of well *(Report location clearly and In accordance with any State requirements.*)*
At surface: 1902 FSL 822 FEL NE SE Lat. 40.019519 Long. -109.568406
At proposed prod. zone: N/A 622173X 44306904 40.019423 -109.568385

11. Sec.,T.,R.,M.,or Blk.and Survey or Area: Sec 20 T 9S R 21E

14. Distance in miles and direction from the nearest town or post office*: 11.9 miles south of Ouray, Utah

12. Cou State: Uintah Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
822'	1600	40
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/ BIA Bond No. on file
1500'	10,000'	WYW000291/RLB0005239
21. Elevations (Show whether DF. RT, GR, etc.)	22. Aproximate date work will start*	Esti mat
4829 GR	ASAP	10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lan SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by existing bond on file(se item 20 above).
5. Operator certification.
6. Such other site specific information and/ or plans as may be required by authorized officer.

25. Signature: Kevin McIntyre — Name *(Printed/ Typed)* Kevin McIntyre

Title: Regulatory Analyst

RECEIVED
JUN 06 2008
DIV. OF OIL, GAS & MINING

Approved By *(Signature)*: 06-17-08 — Name *(Printed/ Typed)*: BRADLEY G. HILL

Title: ENVIRONMENTAL MANAGER — Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

* *(Instructions on page 2)*

Federal Approval of this Action is Necessary

Kerr-McGee Oil & Gas Onshore LP

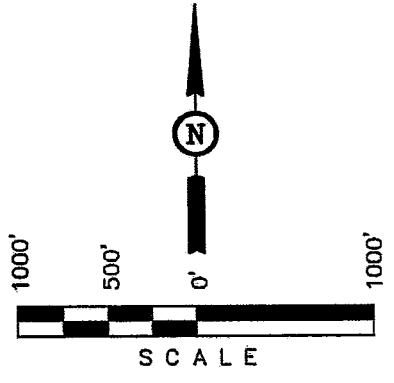
Well location, NBU #921-20IT, located as shown in the NE 1/4 SE 1/4 of Section 20, T9S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

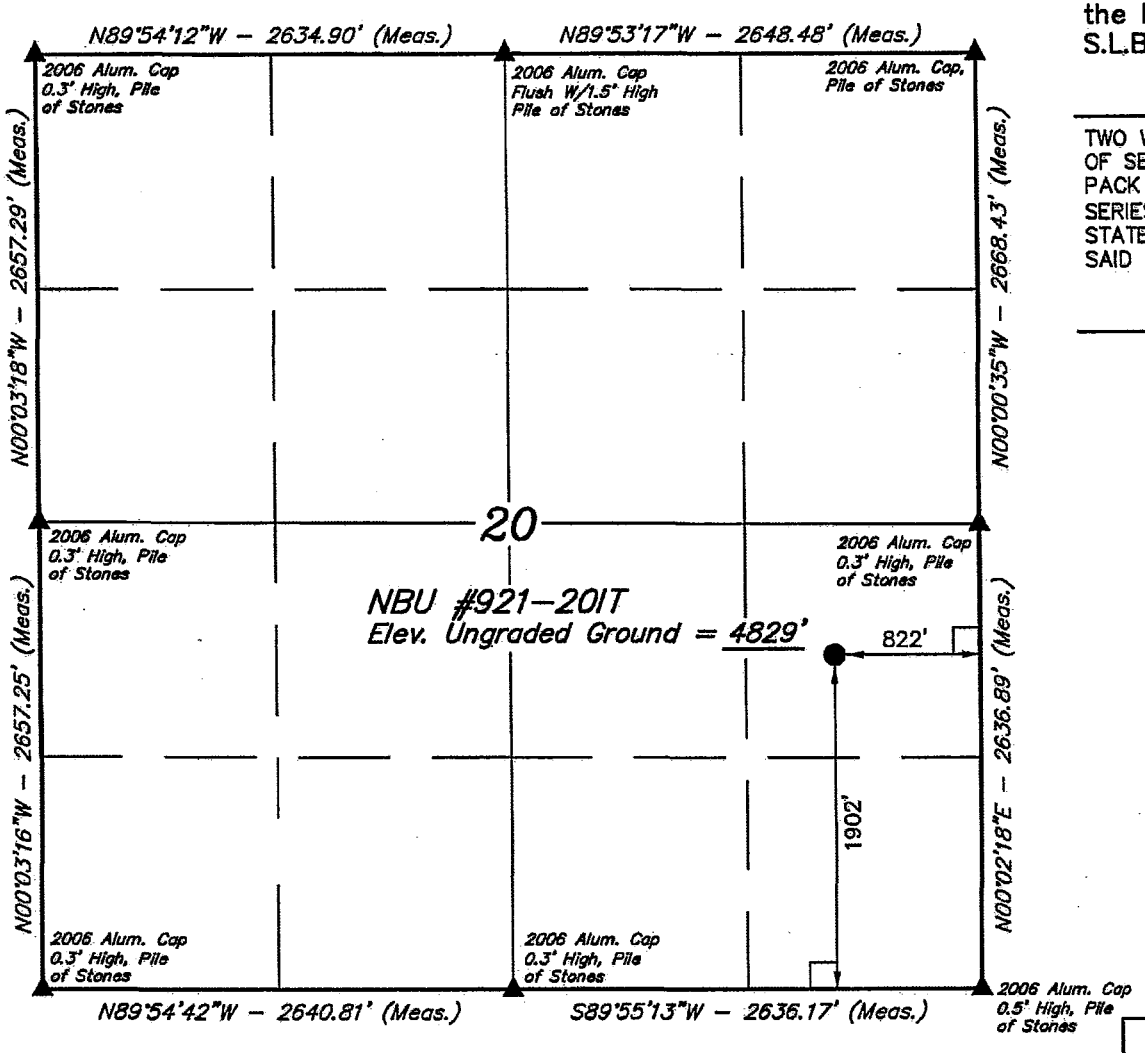
TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M., TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



T9S, R21E, S.L.B.&M.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°01'10.14" (40.019483)
LONGITUDE = 109°34'08.74" (109.569094)

(NAD 27)
LATITUDE = 40°01'10.27" (40.019519)
LONGITUDE = 109°34'06.26" (109.568406)

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	4-17-08	5-13-08
PARTY: D.K. C.K. C.P.	REFERENCES: G.L.O. PLAT	
WEATHER: COOL	FILE: Kerr McGee Oil & Gas Onshore LP	

NBU 921-20IT
NESE Sec. 20, T9S R20E
UINTAH COUNTY, UTAH
UTU-0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	1593'
Top of Birds Nest Water	1874'
Mahogany	2232'
Wasatch	4937'
Mesaverde	7879'
MVU2	8845'
MVL1	9415'
TD	10,000'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	1593'
	Top of Birds Nest Water	1874'
	Mahogany	2232'
Gas	Wasatch	4937'
Gas	Mesaverde	7879'
Gas	MVU2	8845'
Gas	MVL1	9415'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,000' TD, approximately equals 6200 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4000 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

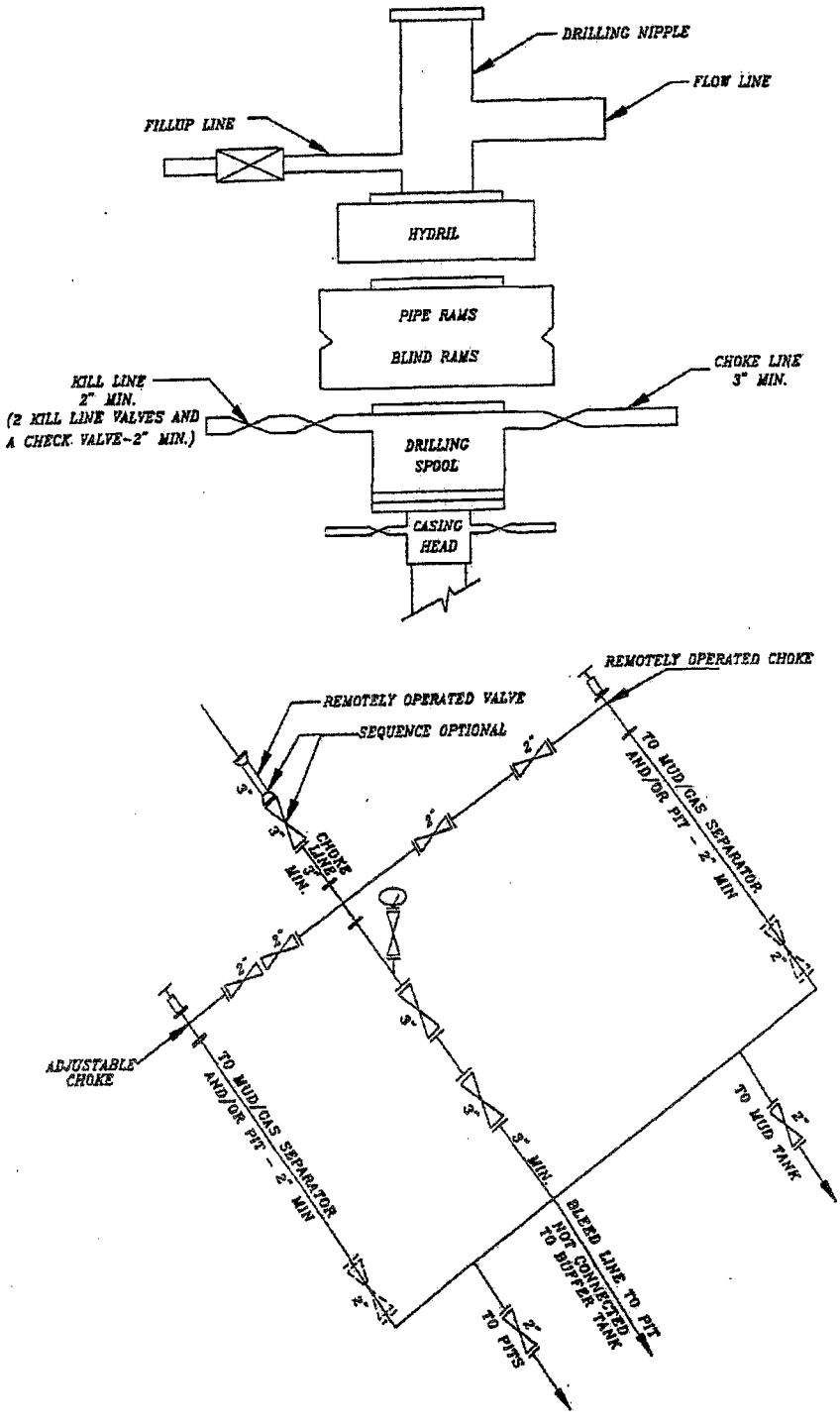
Please see Natural Buttes Unit SOP.

10. **Other Information:**

Please see Natural Buttes Unit SOP.

NBU 921-20IT

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 921-20IT
NESE Sec. 20, T9S R20E
UINTAH COUNTY, UTAH
UTU-0575

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

Approximately 1.0 mi +/- of new access road. Please refer to the attached Topo Map B.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please see the Natural Buttes Unit SOP.

Existing pipeline for Cige # 70 will be utilized for this twin location.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility, Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond, SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond, Sec. 2, T10S, R23E.

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

12. **Other Information:**

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within boundaries of the unit.

13. Lessee's or Operator's Representative & Certification:

Kevin McIntyre
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bold #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Kevin McIntyre

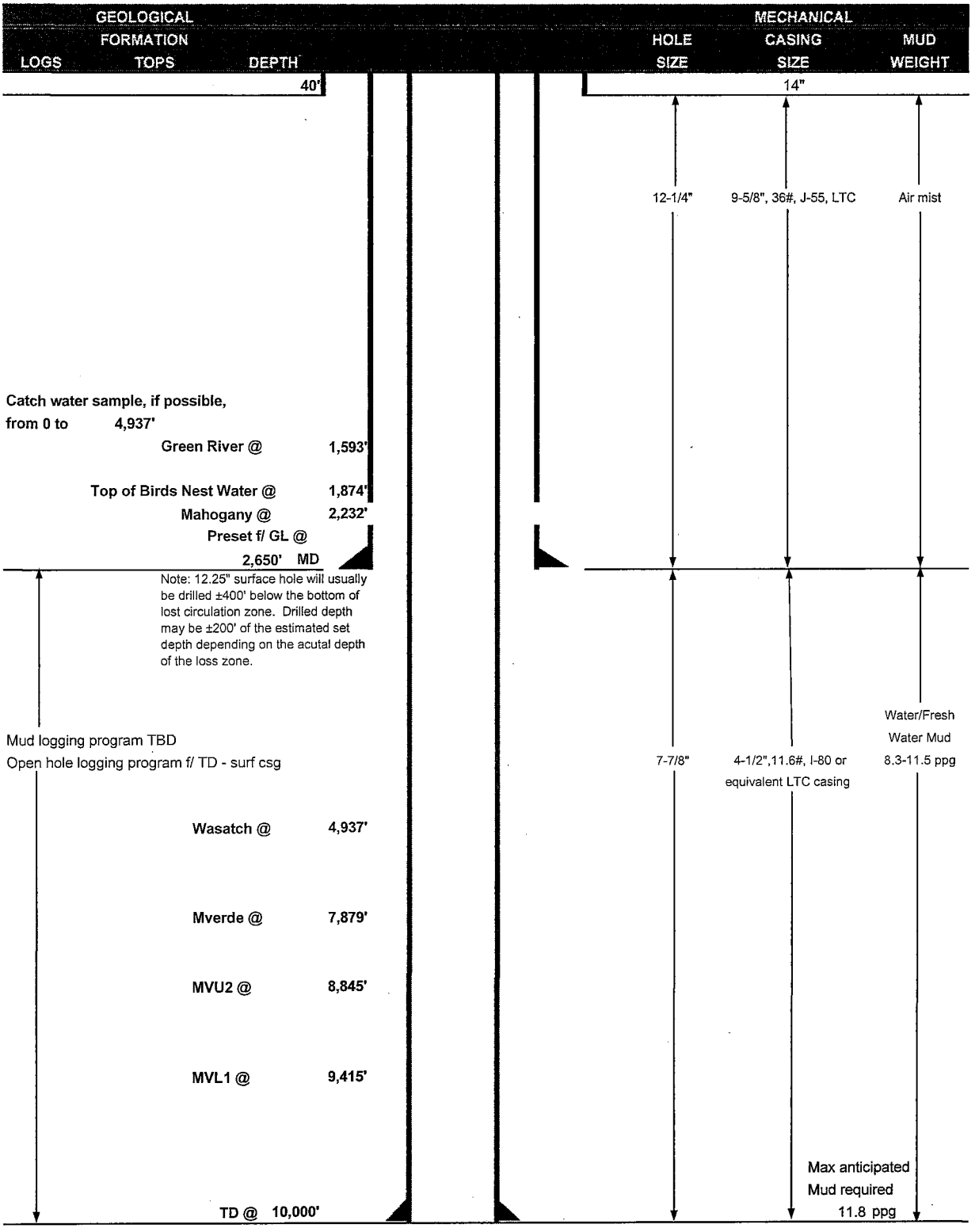
6/5/2008
Date

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	June 5, 2008	
WELL NAME	**NBU 921-20IT**		TD	10,000' MD/TVD	
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION	4,829' GL KB 4,844'
SURFACE LOCATION	NESE 1902' FSL & 822' FEL Sec. 29, T9S, R21E				BHL Straight Hole
	Latitude: 40.019519	Longitude: -109.568406		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies:Tribe (Surface) BLM (Minerals), UDOGM, Tri-County Health Dept.				



KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3520	2020	453000
SURFACE	9-5/8"	0	to	2,650'	36.00	J-55	LTC	0.89	1.63	5.42
								7780	6350	201000
PRODUCTION	4-1/2"	0	to	10000	11.60	I-80	LTC	1.98	1.03	1.99

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 4000 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			**+ .25 pps flocele**				
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt	100		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite	230	35%	11.00	3.82
			+.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,430'	Premium Lite II + 3% KCl + 0.25 pps	480	60%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,570'	50/50 Poz/G + 10% salt + 2% gel	1560	60%	14.30	1.31
			+.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

Kerr-McGee Oil & Gas Onshore LP

NBU #921-20IT
SECTION 20, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 2.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 42.9 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #921-20IT

LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T9S, R21E, S.L.B.&M.

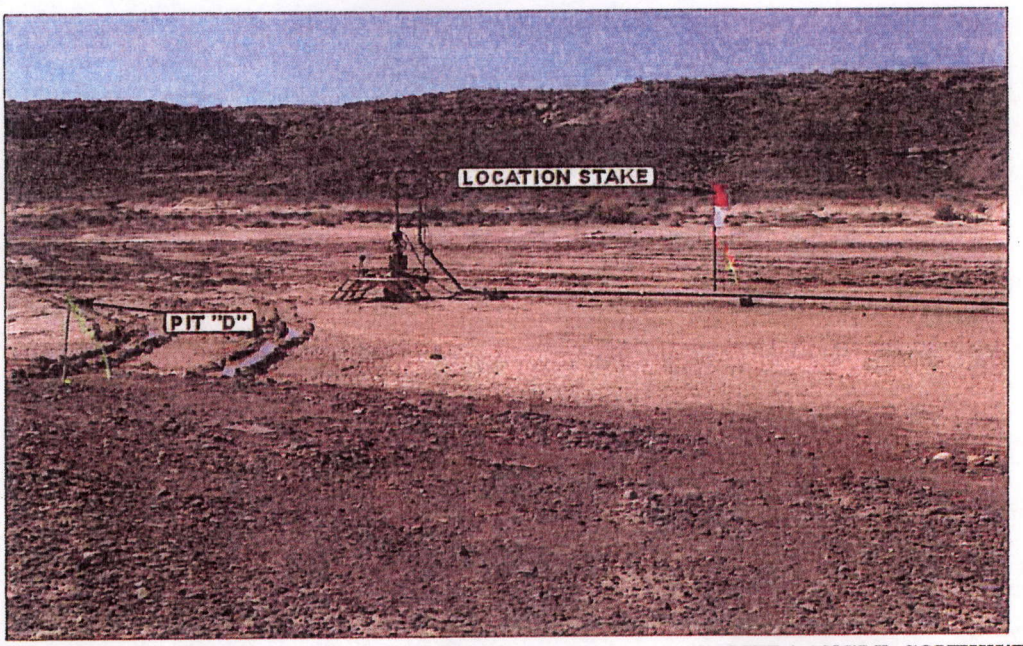


PHOTO: VIEW FROM PIT "D" TO LOCATION STAKE — CAMERA ANGLE: SOUTHWESTERLY

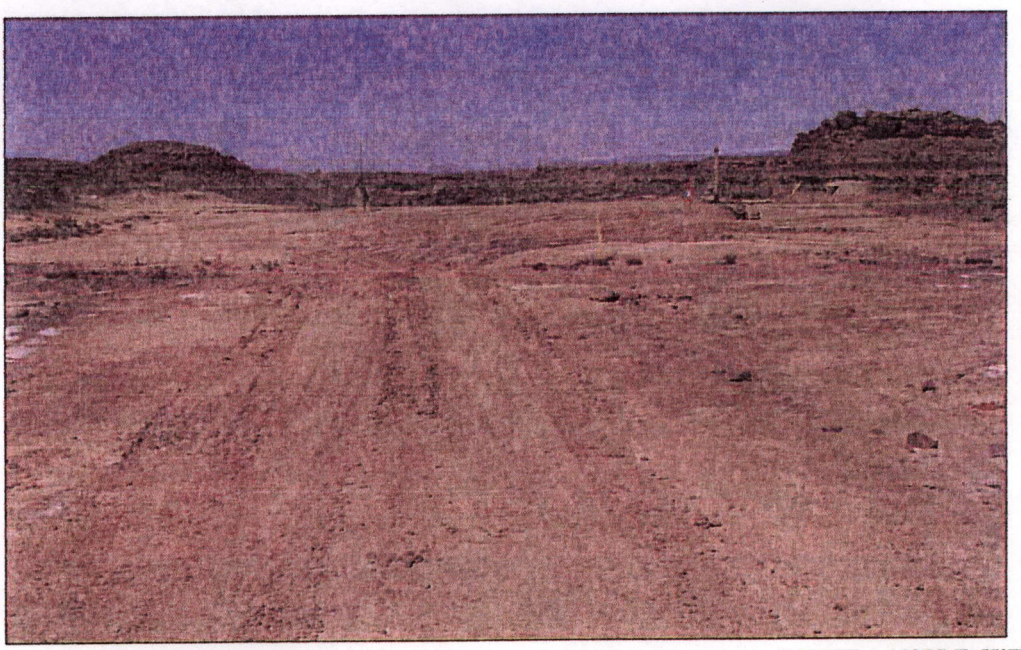


PHOTO: VIEW OF EXISTING ACCESS — CAMERA ANGLE: WESTERLY

- Since 1964 -

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

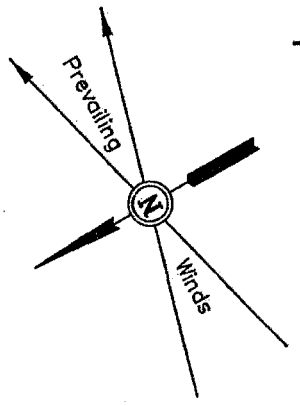
LOCATION PHOTOS	05 MONTH	13 DAY	08 YEAR	PHOTO
TAKEN BY: D.K.	DRAWN BY: C.P.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

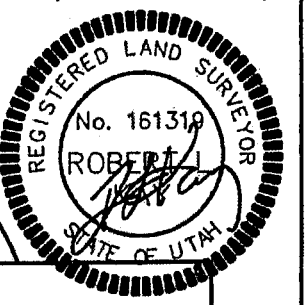
FIGURE #1

LOCATION LAYOUT FOR

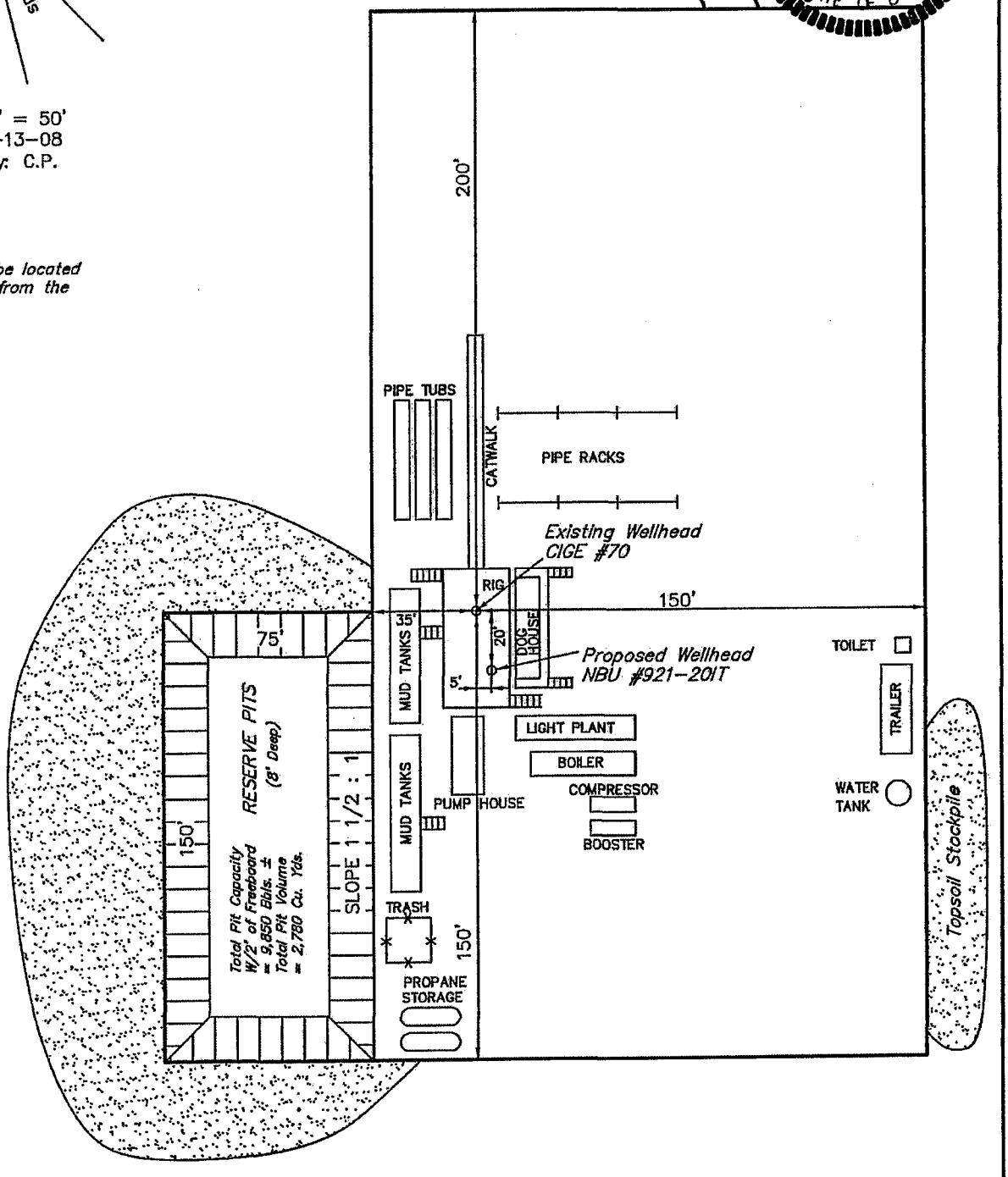
NBU #921-20IT
SECTION 20, T9S, R21E, S.L.B.&M.
1902' FSL 822' FEL



SCALE: 1" = 50'
DATE: 5-13-08
Drawn By: C.P.



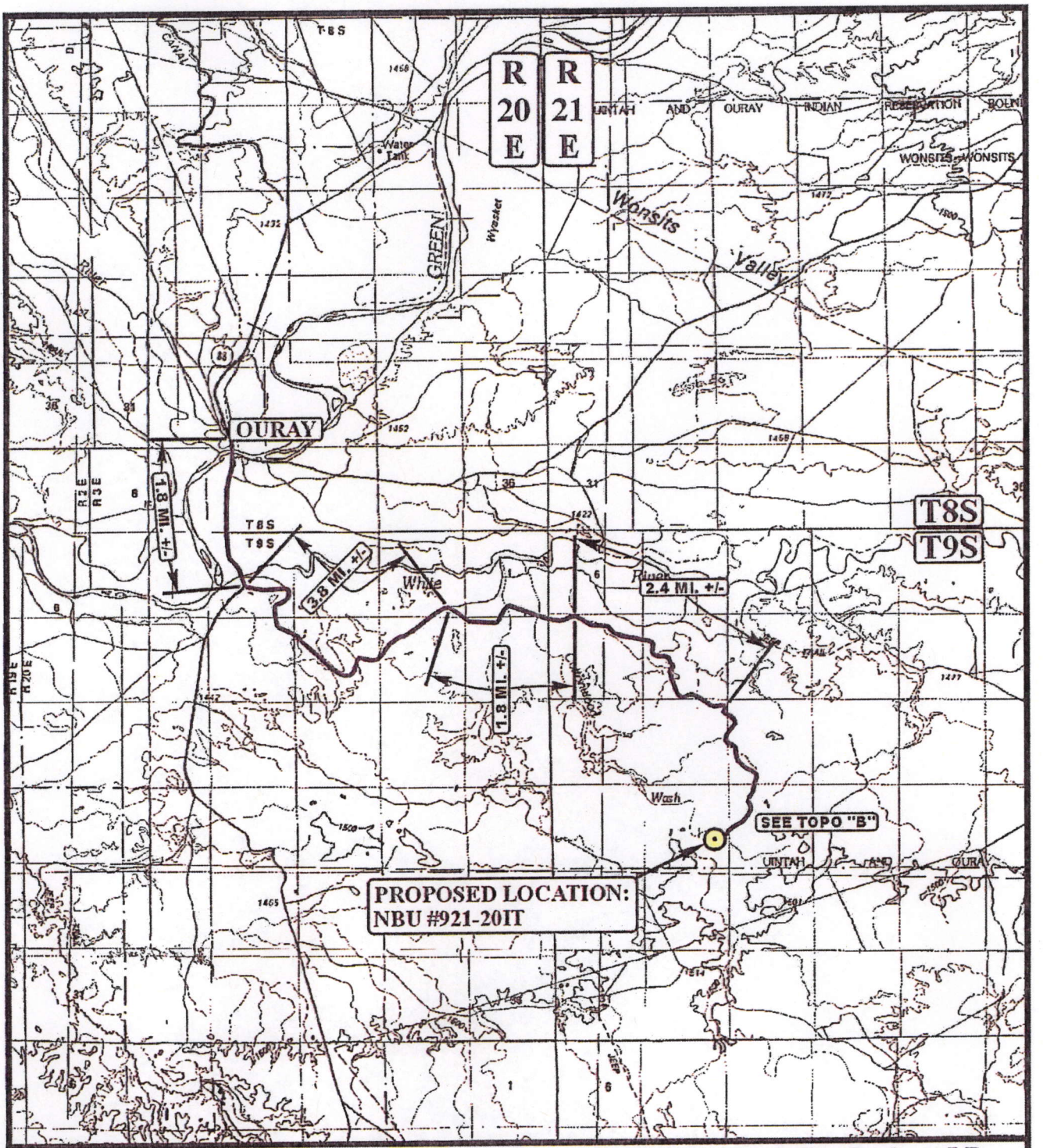
NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.



NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 4829.0'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



LEGEND:

⊙ PROPOSED LOCATION

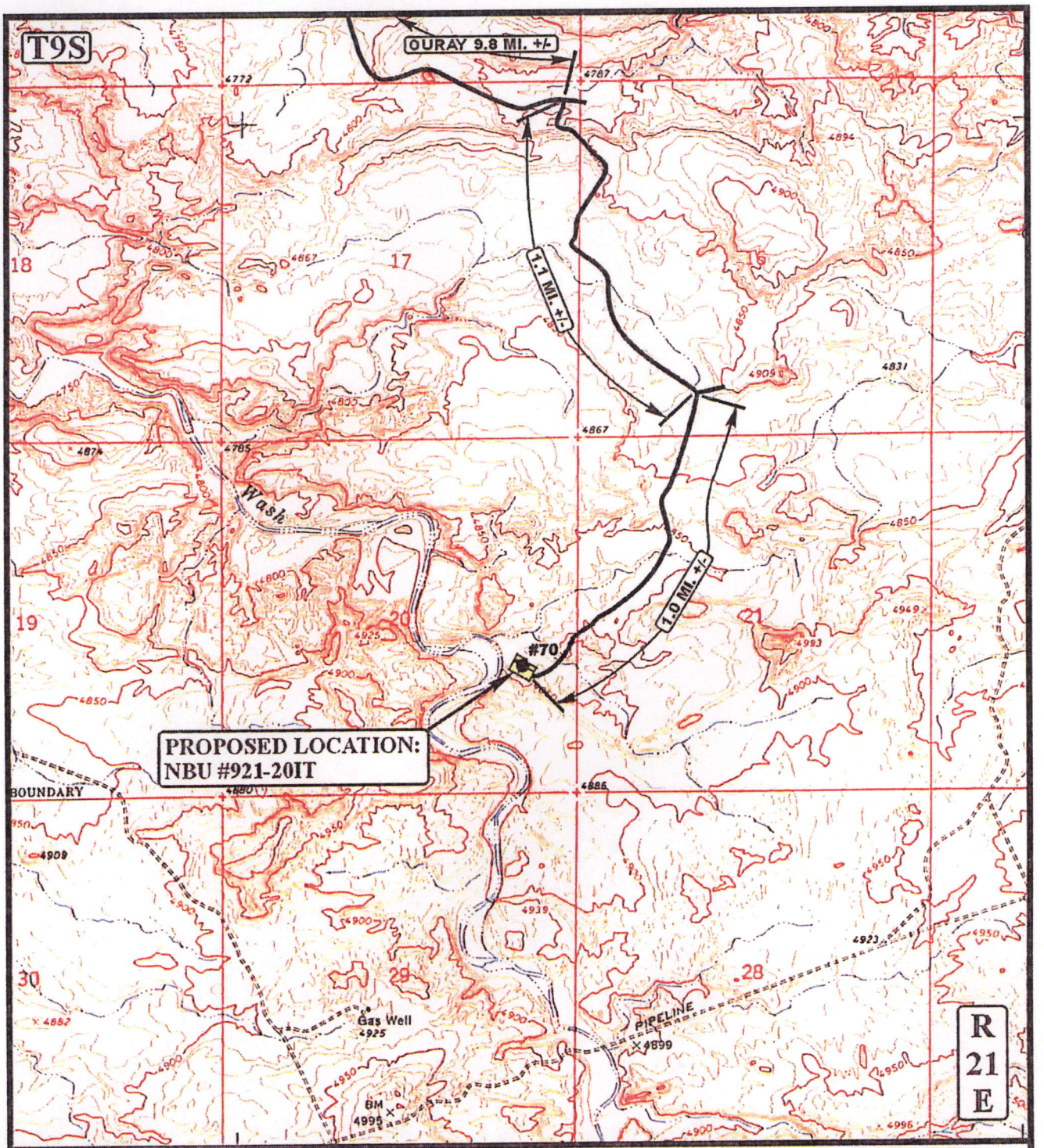
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-20IT
SECTION 20, T9S, R21E, S.L.B.&M.
1902' FSL 822' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	13 DAY	08 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

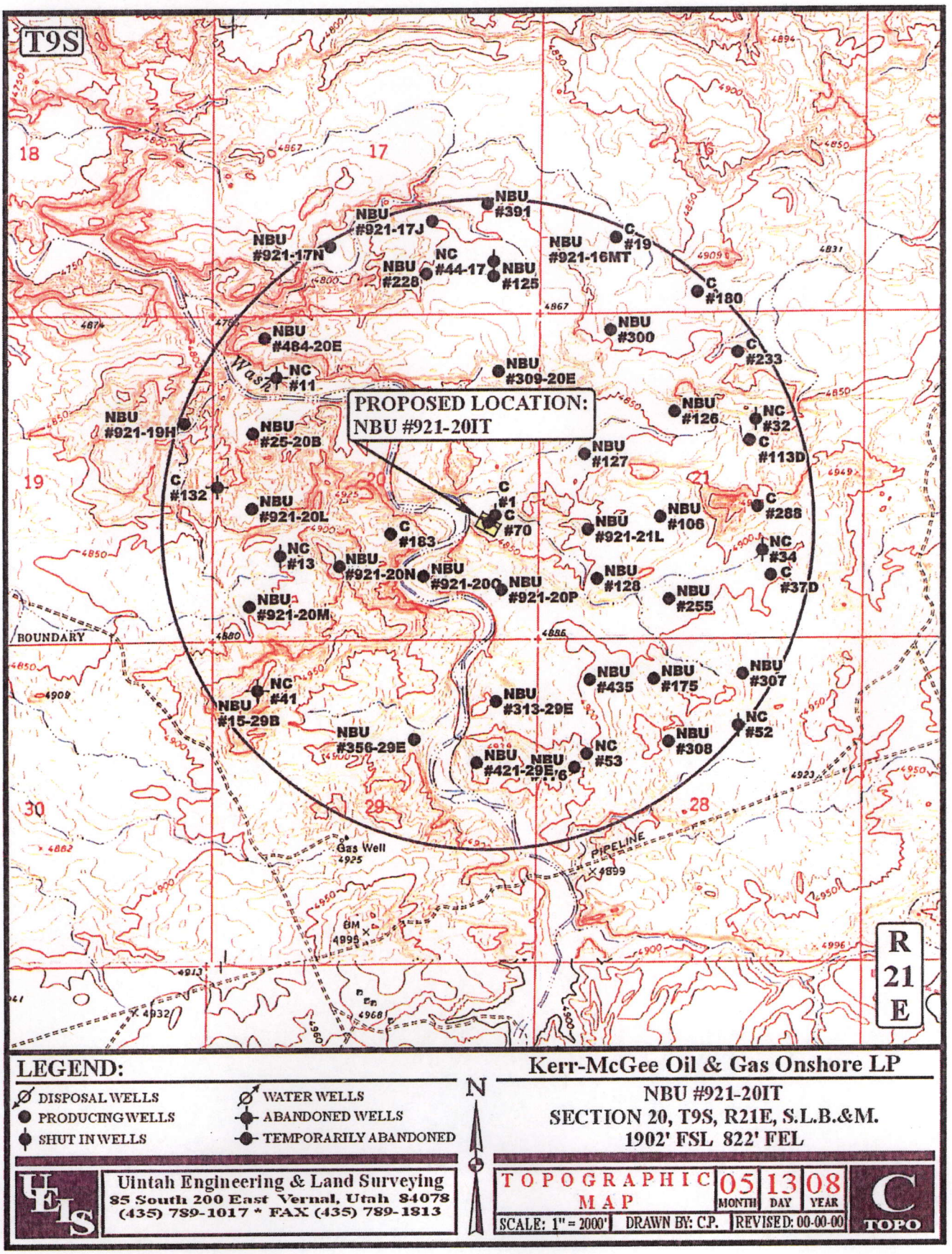
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-20IT
SECTION 20, T9S, R21E, S.L.B.&M.
1902' FSL 822' FEL

UELS
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	13 DAY	08 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-20IT
SECTION 20, T9S, R21E, S.L.B.&M.
1902' FSL 822' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP | 05 MONTH | 13 DAY | 08 YEAR | C TOPO

SCALE: 1" = 2000' | DRAWN BY: C.P. | REVISED: 00-00-00

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/06/2008

API NO. ASSIGNED: 43-047-40136

WELL NAME: NBU 921-20IT

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 720-929-6226

CONTACT: KEVIN MCINTYRE

PROPOSED LOCATION:

NESE 20 090S 210E

SURFACE: 1902 FSL 0822 FEL

BOTTOM: 1902 FSL 0822 FEL

COUNTY: UINTAH

LATITUDE: 40.01947 LONGITUDE: -109.5684

UTM SURF EASTINGS: 622173 NORTHINGS: 4430690

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	**Initials**	**Date**
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0575

PROPOSED FORMATION: MVRD

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYW000291)

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: NATURAL BUTTES

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-1999

Siting: 460' fr u bdrs & uncomm. tract

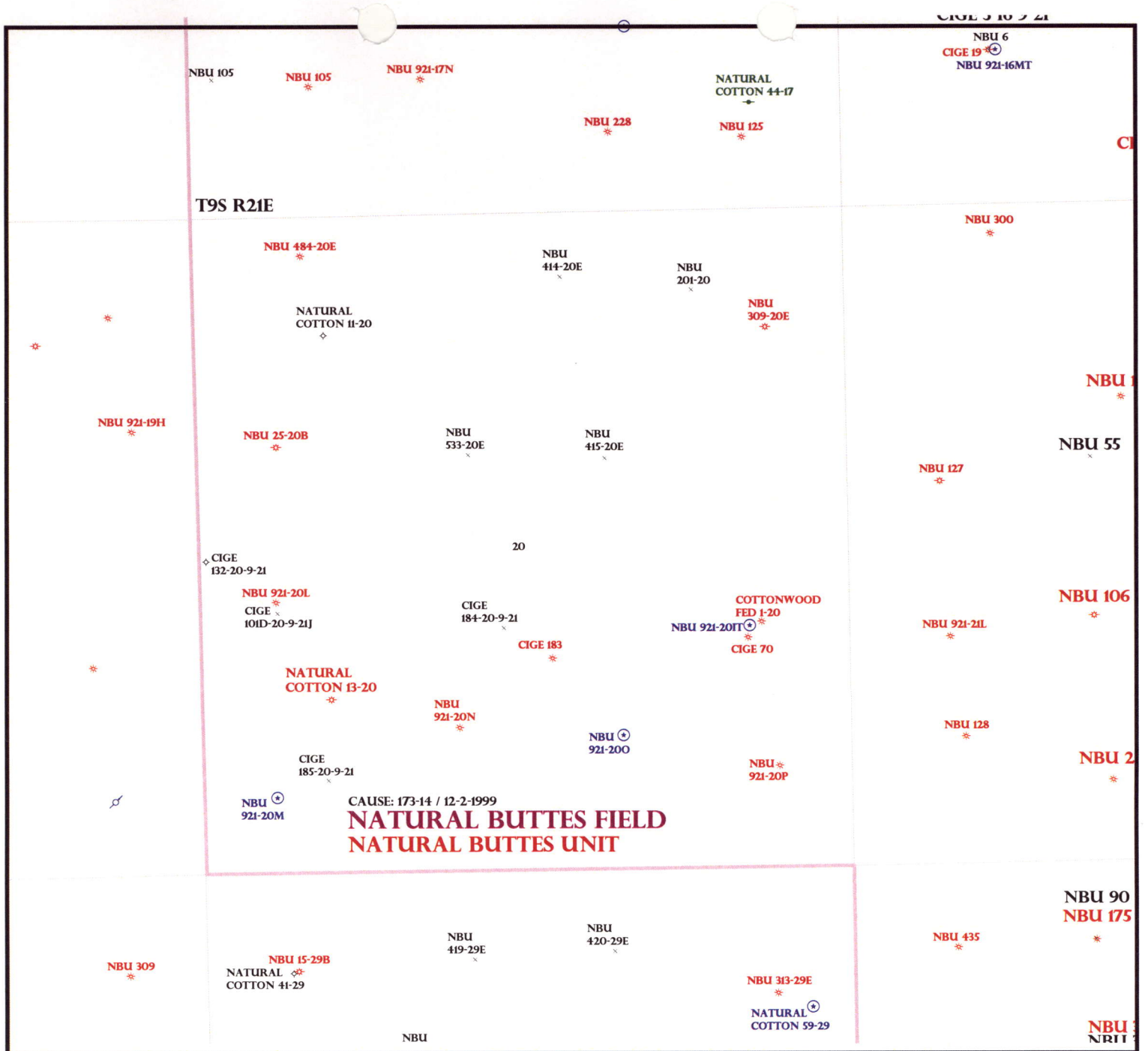
___ R649-3-11. Directional Drill

COMMENTS: Sop, Separate file

STIPULATIONS: 1- Federal Approval

2- Oil Shale

3- THE NBU 921-20IT SHALL NOT BE PRODUCED FROM ANY ZONES THAT ARE BEING PRODUCED IN THE CIGE 70 OR THE COTTONWOOD FEDERAL 1-20.



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 20 T.9S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 16-JUNE-2008

KERR-MCGEE OIL & GAS ONSHORE LP

1099 18TH STREET • DENVER, COLORADO 80202
720-929-6000

KerrMcGee

June 9, 2008

Utah Division of Oil, Gas & Mining
1594 W. North Temple, STE 1210
Salt Lake City, UT 84114-5801

Attention: Diana Mason

RE: Twin Locations

Dear Diana:

Per our email correspondences on June 6, 2008 Kerr-McGee Oil & Gas Onshore LP is submitting this letter regarding our twin program. We have several wells that plan to twin in the next few years. Our plan is to drill a second well bore to the Mesaverde formation The currently producing wells are producing from the Wasatch formation and many will be plugged prior to drilling the Mesaverde well. Below is a current list of locations that we plan to drill a twin Mesaverde well.

Wissiup 820-36PT	Twin to the Wissiup 36-114	NBU 1022-3FT	Twin to the NBU 286
Federal 821-33MT	Twin to the Federal 33-93	NBU 1022-5BT	Twin to the NBU 140
NBU 920-15FT	Twin to the CIGE 22	NBU 1022-5IT	Twin to the NBU 338
NBU 921-26IT	Twin to the NBU 68-N2	NBU 1022-8IT	Twin to the CIGE 250
NBU 921-30FT	Twin to the NBU 261	NBU 1022-9AT	Twin to the NBU 291
NBU 921-31BT	Twin to the NBU 378	NBU 1022-10HT	Twin to the NBU 293
NBU 921-35AT	Twin to the CIGE 54D	NBU 1022-10FT	Twin to the NBU 248
NBU 922-31CT	Twin to the NBU 354	NBU 921-03BT	Twin to SHOYO 3-162
NBU 922-31GT	Twin to the CIGE 220	NBU 921-20IT	Twin to CIGE 70
NBU 922-32O1T	Twin to the NBU 404	NBU 921-27MT	Twin to NBU 395
NBU 922-32F3T	Twin to the CIGE 106D	NBU 921-27OT	Twin to NBU 305
NBU 922-35IT	Twin to the CIGE 118	NBU 921-15MT	Twin to NBU 191
NBU 922-36NT	Twin to the CIGE 147	NBU 921-27HT	Twin to NBU 109
NBU 1022-1CT	Twin to the CIGE 105D	NBU 921-27KT	Twin to NBU 83J
NBU 921-27LT	Twin to NBU 214		

RECEIVED
JUN 11 2008
DIV. OF OIL, GAS & MINING

KERR-McGEE OIL & GAS ONSHORE LP

1099 18TH STREET • DENVER, COLORADO 80202
720-929-6000

KerrMcGee

NBU 1022-4N4T	Twin to NBU 148
NBU 922-31L4T	Twin to NBU 41J
NBU 1022-4L1T	Twin to NBU 147
NBU 1022-9F4T	Twin to NBU 150
NBU 1022-4P1T	Twin to NBU 208
NBU 1022-9D1T	Twin to NBU 151
NBU 1022-3G3T	Twin to NBU 185
NBU 1022-10A2T	Twin to NBU 117
NBU 921-11B3T	Twin to NBU 195
NBU 921-21E4T	Twin to NBU 127
NBU 921-8A4T	Twin to NBU 202

The above lists of well locations are planned for the 2008-2009 drilling program. This list may vary depending on the program. Please do not hesitate to call me if you have any further questions or need additional information.

Thank you,

Raleen White

Raleen White
Sr. Regulatory Analyst

Cc: SITLA – Ed Bonner
BLM Vernal Office – Verlyn Pindell

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

June 16, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MesaVerde)		
43-047-40136	NBU 921-20IT	Sec 20 T09S R21E 1902 FSL 0822 FEL
43-047-40135	NBU 921-15MT	Sec 15 T09S R21E 0697 FSL 0406 FWL
43-047-40134	NBU 922-31GT	Sec 31 T09S R22E 1664 FNL 1349 FEL
43-047-40133	NBU 922-32CT	Sec 32 T09S R22E 0809 FNL 2154 FWL
(Proposed PZ Wasatch/MesaVerde)		
43-047-40129	NBU 1022-24B1AS	Sec 24 T10S R22E 1052 FNL 1583 FEL
		BHL Sec 24 T10S R22E 0150 FNL 1375 FEL
43-047-40130	NBU 1022-24B1DS	Sec 24 T10S R22E 1026 FNL 1637 FEL
		BHL Sec 24 T10S R22E 0540 FNL 1605 FEL
43-047-40131	NBU 1022-24G1S	Sec 24 T10S R22E 1044 FNL 1601 FEL
		BHL Sec 24 T10S R22E 1515 FNL 1580 FEL
43-047-40141	NBU 1022-24I1S	Sec 24 T10S R22E 2062 FSL 1130 FEL
		BHL Sec 24 T10S R22E 2330 FSL 0585 FEL
43-047-40142	NBU 1022-24G3S	Sec 24 T10S R22E 2037 FSL 1184 FEL
		BHL Sec 24 T10S R22E 2225 FNL 2140 FEL
43-047-40140	NBU 1022-24G2S	Sec 24 T10S R22E 2053 FSL 1148 FEL
		BHL Sec 24 T10S R22E 1815 FNL 2100 FEL

Our records indicate the 1022-24B1AS, 1022-24B1DS, 1022-24G1S and the 1022-24I1 bottom hole location is closer than 460 feet from the Natural Buttes Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:6-16-08

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 17, 2008

Kerr-McGee Oil & Gas Onshore, LP
P O Box 173779
Denver, CO 80217-3779

Re: NBU 921-20IT Well, 1902' FSL, 822' FEL, NE SE, Sec. 20, T. 9 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40136.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING

Operator: Kerr-McGee Oil & Gas Onshore, LP

Well Name & Number NBU 921-20IT

API Number: 43-047-40136

Lease: UTU-0575

Location: NE SE **Sec.** 20 **T.** 9 South **R.** 21 East

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   Notify the Division within 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284.

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

6. The NBU 921-20IT shall not be produced from any zones that are being produced in the CIGE 70 or the Cottonwood Federal 1-20.

API Well No: 43047401360000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6587 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1902 FSL 0822 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/12/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: June 10, 2009

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/9/2009

RECEIVED June 09, 2009

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources
Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401360000

API: 43047401360000
Well Name: NBU 921-20IT
Location: 1902 FSL 0822 FEL QTR NESE SEC 20 TWNP 090S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 6/17/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 6/9/2009
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: June 10, 2009
By: Dally Hill

RECEIVED June 09, 2009

Federal Approval of this Action is Necessary

API Well No: 43047401360000

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0575

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1902 FSL 0822 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 10/18/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests a minor adjustment of the surface location for this well due to additional wells being added to the pad. The surface location is changing FROM: 1,902' FSL 822' FEL TO: 1,898' FSL 875' FEL. Please see the attached revised survey plat for additional information. All of the other original information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

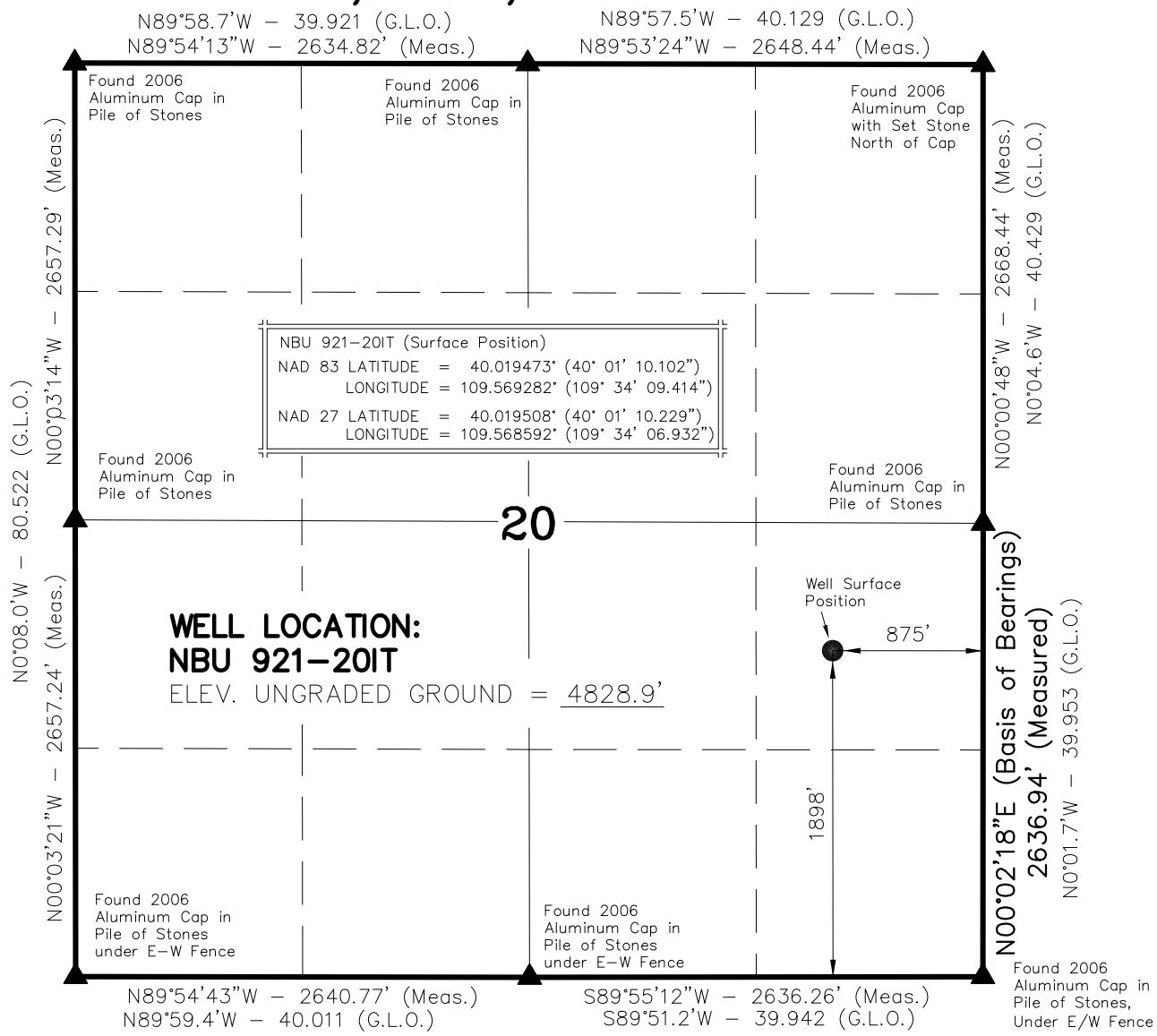
Date: October 15, 2009

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 10/14/2009

RECEIVED October 14, 2009

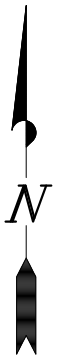
T9S, R21E, S.L.B.&M.

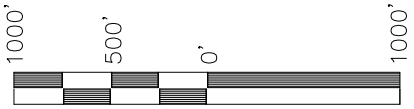


NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. Bearings are based on Global Positioning Satellite observations.
4. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.





SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
No. 362251
KOLBY R. KAY
STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

Kerr-McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20IT
WELL PLAT
1898' FSL, 875' FEL
NE ¼ SE ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST – VERNAL, UTAH 84078

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 2 OF 13
DATE DRAWN: 02-10-09	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised:	

RECEIVED October 14, 2009

API Well No: 43047401360000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/17/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: June 23, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/17/2010

RECEIVED June 17, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources
Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401360000

API: 43047401360000
Well Name: NBU 921-20IT
Location: 1898 FSL 0875 FEL QTR NESE SEC 20 TWNP 090S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 6/17/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 6/17/2010
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: June 23, 2010

By: Dustin Doucet

RECEIVED June 17, 2010

API Well No: 43047401360000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/17/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: June 23, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/17/2010

RECEIVED June 17, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources
Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401360000

API: 43047401360000
Well Name: NBU 921-20IT
Location: 1898 FSL 0875 FEL QTR NESE SEC 20 TWNP 090S RNG 210E MER S
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Date Original Permit Issued: 6/17/2008

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Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 6/17/2010
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: June 23, 2010

By: Dustin Doucet

RECEIVED June 17, 2010

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 05/16/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/13/2011

RECEIVED May. 13, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401360000

API: 43047401360000
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Signature: Andy Lytle **Date:** 5/13/2011
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED May. 13, 2011

Form 3160-3
(August 2007)

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-0575

6. If Indian, Allotee or Tribe Name
Ute

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
891008900A

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other ☐ Single Zone ☑ Multiple Zone

8. Lease Name and Well No.
NBU 921-20IT

2. Name of Operator
Kerr-McGee Oil & Gas Onshore, LP

9. API Well No.
43-047-40136

3a. Address
P.O. Box 173779, Denver, CO 80217-3779

3b. Phone No. *(include area code)*
720.929.6226

10. Field and Pool, or Exploratory
Natural Buttes Field

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface NESE 1902' FSL & 822' FEL LAT 40.019519 -109.568406 (NAD 27)
At proposed prod. zone N/A

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 20, T 9S, R 21E

14. Distance in miles and direction from nearest town or post office*
11.9 miles south of Ouray, Utah

12. County or Parish
Uintah

13. State
UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 822'	16. No. of acres in lease 1600	17. Spacing Unit dedicated to this well Unit Well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1500'	19. Proposed Depth 10,000'	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4829' GL	22. Approximate date work will start*	23. Estimated duration 10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name *(Printed Typed)*	Date
	Kevin McIntyre	06/05/2008

Title
Regulatory Analyst

Approved by *(Signature)*	Name *(Printed Typed)* Jerry Kenczka	Date APR 26 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

No NOS Posted 6-11-08

RECEIVED
MAY 16 2011
DIV. OF OIL, GAS & MINING

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

08.1M0105A

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr McGee Oil & Gas Onshore LP**	**Location:**	**SESE, Sec.20, T9S R21E**
Well No:	**NBU 920-20IT**	**Lease No:**	**UTU-0575**
API No:	**43-047-40136**	**Agreement:**	**Natural Buttes**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC CONDITIONS OF APPROVAL

- Paint New facilities "shadow gray."

- Monitor by a permitted paleontologist during the construction process.

- Monitor location by a permitted archaeologist during the construction process.

- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), a raptor survey should be conducted prior to construction of the proposed location, pipeline, or access road if construction would take place during raptor nesting season (January 01 through September 30) and conduct its operations according to specification in the guidelines.

- If project construction operations are scheduled to occur after June 8, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

- Soil erosion will be mitigated by reseeding all disturbed areas.

- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all

flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.

- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.

- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.

- Major low water crossings will be armored with pit run material to protect them from erosion.

- All personnel should refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.

- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

- If project construction operations are scheduled to occur after December 31, 2009, KMG should conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.

- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).

- All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Kerr McGee and their contractors shall strictly adhere to all operating practices in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of

the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in

hole, and the current status of the surface restoration.

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
Well Name/Number NBU 921-20IT
Qtr/Qtr NE/SE Section 20 Township 9S Range 21E
Lease Serial Number UTU-0575
API Number 4304740136

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 07/01/2011 1200 HRS AM ☑ PM ☐

Casing – Please report time casing run starts, not cementing times.

☑ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED
JUN 30 2011
DIV. OF OIL, GAS & MINING

Date/Time 07/15/2011 0800 HRS AM ☑ PM ☐

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.781.7048 FOR MORE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 7/1/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 07/01/2011 AT 0900 HRS.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 7/7/2011

RECEIVED Jul. 07, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU-0575

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
UTE

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 921-20IT

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047401360000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 7/15/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON JULY 13, 2011. DRILLED SURFACE HOLE TO 2720'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE		**DATE**
N/A		7/18/2011

RECEIVED Jul. 18, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750599	NBU 921-20I4CS		NESE	20	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	7/1/2011			7/20/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 07/01/2011 AT 0900 HRS. BHL= NESE							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740136	NBU 921-20IT		NESE	20	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	7/1/2011			7/20/11	
Comments: MIRU PETE MARTIN BUCKET RIG. MVRD=WSMVD SPUD WELL ON 07/01/2011 AT 0900 HRS.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750601	NBU 921-20P1BS		NESE	20	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	7/2/2011			7/20/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 07/02/2011 AT 0800 HRS. BHL= SESE							

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK
Name (Please Print)
Signature
REGULATORY ANALYST
Title
7/7/2011
Date

(5/2000)

RECEIVED
JUL 07 2011
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
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	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 9/13/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2720' TO 10,195' ON SEPT 12, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9480'. RAN 4 ½" 11.6# P110 CSG FROM 9480' TO 10,180'. CEMENTED PRODUCTION CASING. RELEASED H&P RIG 298 ON SEPT 13, 2011 @ 18:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/14/2011

RECEIVED Sep. 14, 2011

Carol Daniels - PRODUCTION CASING MBU 921-20IT T09S R21E S-20 43-047-40136

From: "Anadarko - H&P 298"
To:
Date: 9/11/2011 8:13 PM
Subject: PRODUCTION CASING MBU 921-20IT

PRODUCTION CASING WILL BE RUN ON NBU 921-20IT MONDAY 9/12/2011 8-10 PM

JIM MURRAY
H&P 298
435 828-0957

RECEIVED
SEP 1 3 2011
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/14/2011	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
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	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/14/2011 AT 1400 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/15/2011

RECEIVED Nov. 15, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20IT

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047401360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1898 FSL 0875 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/14/2011	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/14/2011 AT 1400 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/15/2011

RECEIVED Nov. 15, 2011

RECEIVED
JAN 03 2012
DIV. OF OIL, GAS & MINING

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU0575

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU63047A

2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP — Contact: GINA T. BECKER — E-Mail: gina.becker@anadarko.com

8. Lease Name and Well No. NBU 921-20IT

3. Address POBOX 173779 DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6086

9. API Well No. 43-047-40136

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NESE 1898FSL 875FEL 40.019473 N Lat, 109.569281 W Lon

At top prod interval reported below NESE 1898FSL 875FEL 40.019473 N Lat, 109.569281 W Lon

At total depth NESE 1898FSL 875FEL 40.019473 N Lat, 109.569281 W Lon 1912 FSL 873 FEL

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 20 T9S R21E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 07/01/2011

15. Date T.D. Reached 09/12/2011

16. Date Completed ☐ D & A ☒ Ready to Prod. 11/14/2011

17. Elevations (DF, KB, RT, GL)* 4828 GL

18. Total Depth: MD 10195 TVD 10193

19. Plug Back T.D.: MD 10160 TVD 10158

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
SYNTHETIC TRIPLE COMBO/RSL/SM-CBL/GR/COLLARS

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ~~☒ No~~ ☑ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
12.250	9.625 J-55	36.0	0	2714		580		0	
7.875	4.500 I-80	11.6	0	9480		1616		1640	
7.875	4.500 P-110	11.6	9480	10181					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9599							

25. Producing Intervals

	Formation	Top	Bottom
A)	WASATCH	7829	7850
B)	MESAVERDE	7866	10037
C)			
D)			

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
7829 TO 7850	0.360	9	OPEN
7866 TO 10037	0.360	205	

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7829 TO 10037	PUMP 8,639 BBLS SLICK H20 163,740 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/14/2011	11/19/2011	24	→	0.0	2009.0	315.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. 1591 SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64		2483.0	→	0	2009	315		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #126977 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1647
				BIRD'S NEST	1944
				MAHOGANY	2399
				WASATCH	4968
				MESAVERDE	7864

32. Additional remarks (include plugging procedure):
Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #126977 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name *(please print)* GINA T. BECKER Title REGULATORY ANALYST

Signature (Electronic Submission) Date 12/29/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011
Project: UTAH-UINTAH	Site: NBU 921-20I PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 6/25/2011	End Date: 9/13/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/13/2011	15:00 - 17:30	2.50	MIRU	01	C	P		MOVE RIG IN OFF THE NBU 921-20P1BS
	17:30 - 19:30	2.00	MIRU	01	B	P		DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWIE LINE. BUILD DITCH. AND RIG UP.. SET CATWALK AND PIPE RACKS. RIG UP AND PRIME PIT PUMP AND MUD PUMP
	19:30 - 20:00	0.50	DRLSUR	06	A	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8014 . 7/8 LOBE .17 RPM. M/U 12.1/4" QD507 SN 7020485 1ST RUN, W/ 7-18'S. INSTALL RUBBER
	20:00 - 22:00	2.00	DRLSUR	02	B	P		SPUD SURFACE 07/13/2011 @ 20:00 HRS. DRILL 12.1/4" SURFACE HOLE F/40'-210' (170' @ 85'/HR) PSI ON/ OFF 700/450, UP/ DOWN/ ROT 27/22/25. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
	22:00 - 22:30	0.50	DRLSUR	06	A	P		TOH T/P/U DIR TOOLS
	22:30 - 0:00	1.50	DRLSUR	06	A	P		P/U DIR TOOLS & SCRIBE,TIH T/210'
7/14/2011	0:00 - 3:00	3.00	DRLSUR	02	B	P		DRILL 12 1/4" SURFACE HOLE F/210' -470' (260' @ 87'/HR) PSI ON/ OFF 900/700, UP/ DOWN/ ROT 45/40/42. 130 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM 0N MM , CIRCULATING RESERVE PIT
	3:00 - 6:00	3.00	ALL	08	B	Z		BLEW HYDRAULIC HOSE ON TOP HEAD,WAIT ON PARTS F/TOWN,REPLACE HYDRAULIC HOSE
	6:00 - 16:00	10.00	DRLSUR	02	B	P		DRILL 12 1/4" SURFACE HOLE F/470' -1690' (1220' @ 122'/HR) PSI ON/ OFF 1500/1290, UP/ DOWN/ ROT 65/58/60. 130 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM 0N MM , CIRCULATING RESERVE PIT
	16:00 - 0:00	8.00	DRLSUR	02	B	P		DRILL 12 1/4" SURFACE HOLE F/1690' -2360' (670' @ 84'/HR) PSI ON/ OFF 1750/1500, UP/ DOWN/ ROT 74/64/70. 130 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM 0N MM , CIRCULATING RESERVE PIT
7/15/2011	0:00 - 4:30	4.50	DRLSUR	02	B	P		DRILL 12 1/4" SURFACE HOLE F/2360' -2720' (360' @ 80'/HR) PSI ON/ OFF 1910/1630, UP/ DOWN/ ROT 80/66/74. 130 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM 0N MM , CIRCULATING RESERVE PIT(TD 12 1/4" SURF. HOLE)
	4:30 - 10:30	6.00	DRLSUR	05	C	P		L/D DRILL STRING,BHA & DIR TOOLS
	10:30 - 11:30	1.00	CSG	12	A	P		MOVE CATWALK AND PIPE RACKS,MOVE CSG OVER TO WORK AREA,R/U T/RUN 9 5/8" 36# SURF. CSG
	11:30 - 15:00	3.50	CSG	12	C	P		HOLD SAFTEY MEETING,RUN FLOAT SHOE ,SHOE JNT,BAFFLE & 60 JNTS 9 5/8" 36# LT&C CSG W/THE SHOE SET @2692' & THE BAFFLE @2646'
	15:00 - 16:30	1.50	CSG	12	B	P		RUN 125' I" PIPE DOWN ANNULUS,INSTALL CEMENT HEAD,R/U PRO PETRO CEMENTERS

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011
Project: UTAH-UINTAH	Site: NBU 921-20I PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 6/25/2011	End Date: 9/13/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 17:30	1.00	CSG	12	E	P		HOLD SAFETY MEETING. TEST LINES TO 2000 PSI. PUMP 15 BBLS OF 8.4# H20 AHEAD,FULL RETURNS PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. PUMP 250 SX(170 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 200 SX (41 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE).DROP PLUG ON FLY AND DISPLACE W201 BBLS OF 8.4# H20. LIFT PRESSURE WAS 600 PSI, BUMP PLUG AND HOLD 1000 PSI FOR 5 MIN. FLOAT HELD,FULL RETURNS THRU OUT JOB ,41 BBLS LEAD CEMENT TO SURF,CEMENT FELL BACK
	17:30 - 18:00	0.50	CSG	12	F	P		TOP OUT THRU 1" PIPE W/100 SKS 15.8 PPG,CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE, CEMENT TO SURF,CEMENT FELL BACK
	18:00 - 19:30	1.50	CSG	13	A	P		WAIT ON CEMENT
	19:30 - 20:00	0.50	CSG	12	F	P		TOP W/30 SKS 15.8 PPG,CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE, CEMENT TO SURF,STAYED @ SURF.(RELEASE RIG @ 20:00 07/15/2011)
9/8/2011	0:00 - 5:00	5.00	MIRU	01	C	P		SKID RIG 10', JUMP SKID RAILS,/ SKID RIG 10' TO THE NBU 921-20IT /,ALIGN RIG OVER WELL
	5:00 - 7:00	2.00	PRPSPD	14	A	P		NU BOP,/ FLOWLINE /ADD,EXTENTION TO MUD LINE
	7:00 - 11:00	4.00	PRPSPD	15	A	P		PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES , HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE + SURFACE CASING TO 1500 PSI @ 30 MINUTES -
	11:00 - 11:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	11:30 - 12:00	0.50	PRPSPD	09	A	P		CUT DRILL LINE
	12:00 - 12:30	0.50	PRPSPD	23		P		PRE SPUD INSPECTION
	12:30 - 13:00	0.50	PRPSPD	06	A	P		P/U HUGHES BIT & EXCEL .24 RPG M MTR,INSTALL MWD ,SCRIBE DIRECTIONAL TOOLS & SURFACE TEST SAME
	13:00 - 14:30	1.50	PRPSPD	06	A	P		TIH, W/ BHA 15 STDS DP, CHECK DERRICK FOR LEVEL,INSTALL ROTATING HEAD TAG CMT @2620,
	14:30 - 15:30	1.00	DRLPRO	02	E	P		DRILL FLOAT TRAC,BAFFLE @ 2670,SHOE @2714,OPEN HOLE TO 2742
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE & SLIDE) F/2742 TO 3840 =1098 @ 143 FPH / / WOB 16K-23K / TOP DRIVE RPM 30-50 / PUMP 124 SPM = 558GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/1800 PSI / MUD MOTOR RPM 118 / PU/SO/ROT WT114/97/109/ TORQUE ON/OFF BOTTOM 6K/2K / SLIDE 88' IN .65 MIN 8% OF FOOTAGE DRILLED & 12% OF HRS DRILLED/ H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011
Project: UTAH-UINTAH	Site: NBU 921-20I PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 6/25/2011	End Date: 9/13/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/9/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE & SLIDE) F/3840 TO 4625 =785 @ 130.8 FPH / / WOB 16K-22K / TOP DRIVE RPM 30-50 / PUMP 124 SPM = 558 GPM / PUMP PRESSURE ON/OFF BOTTOM 2200/1820 PSI / MUD MOTOR RPM 118 / PU/SO/ROT WT128/100/120/ TORQUE ON/OFF BOTTOM 6K/2K / SLIDE 80' IN .60 MIN 10% OF FOOTAGE DRILLED & 16.6% OF HRS DRILLED/ H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	6:00 - 16:00	10.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE & SLIDE) F/4625 TO 5832 =1207 @ 120.7 FPH / / WOB 16K-25K / TOP DRIVE RPM 30-50 / PUMP 124 SPM = 558 GPM / PUMP PRESSURE ON/OFF BOTTOM 2350/2050 PSI / MUD MOTOR RPM 118 / PU/SO/ROT WT153/130/141/ TORQUE ON/OFF BOTTOM 7K/3K / SLIDE 118' IN .100 MIN 9.7% OF FOOTAGE DRILLED & 16.6% OF HRS DRILLED/ H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 21:00	4.50	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F/5832 TO 6207 =375 @83.3 FPH / / WOB 16K-26K / TOP DRIVE RPM 30-65 / PUMP 124 SPM = 558 GPM / PUMP PRESSURE ON/OFF BOTTOM 2375/2050 PSI / MUD MOTOR RPM 118 / PU/SO/ROT WT154/131/146/ TORQUE ON/OFF BOTTOM 7K/3K / H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	21:00 - 0:00	3.00	DRLPRO	06	A	P		PUMP SLUG TRIP FOR BIT,NO PROBLEM,HOLE GOOD,FUNCT TEST PIPE & BLIND RAMS
9/10/2011	0:00 - 1:00	1.00	DRLPRO	06	A	P		CHANGE OUT M MTR & BIT,INSTALL MWD ,SCRIBE & SURFACE TEST TOOLS
	1:00 - 4:00	3.00	DRLPRO	06	A	P		TIH,W BHA CHECK DERRICK FOR LEVEL, INSTALL ROT HEAD, BREAK CIRC @ SHOE,CIH WASH 120' TO BTM 5' FI
	4:00 - 6:00	2.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F/6207 TO 6460 =253 @126.5 FPH / / WOB 16K-23K / TOP DRIVE RPM 30-65 / PUMP 124 SPM = 558 GPM / PUMP PRESSURE ON/OFF BOTTOM 2250/2000 PSI / MUD MOTOR RPM 89 / PU/SO/ROT WT168/141/152/ TORQUE ON/OFF BOTTOM 8K/4K / H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	6:00 - 17:00	11.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F/6460 TO 7530 =1070 @97.2 FPH / / WOB 16K-23K / TOP DRIVE RPM 30-65 / PUMP 124 SPM = 558 GPM / PUMP PRESSURE ON/OFF BOTTOM 2250/2075 PSI / MUD MOTOR RPM 89 / PU/SO/ROT WT190/151/168/ TORQUE ON/OFF BOTTOM 7K/6K / SLIDE 85' IN .95 MIN 8% OF FOOTAGE DRILLED & 14% OF HRS DRILLED / H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011
Project: UTAH-UINTAH	Site: NBU 921-20I PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 6/25/2011	End Date: 9/13/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 0:00	6.50	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F7530 TO 8090 =560 @86.1 FPH / / WOB 16K-23K / TOP DRIVE RPM 30-65 / PUMP 124 SPM = 558 GPM / PUMP PRESSURE ON/OFF BOTTOM 2360/2180 PSI / MUD MOTOR RPM 89 / PU/SO/ROT WT201/160/180/ TORQUE ON/OFF BOTTOM 8K/6K / / CLOSE IN PITS /MUD UP MW 9.5 / 5' FLARE
9/11/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F8090 TO 8570=480 @80 FPH / / WOB 16K-23K / TOP DRIVE RPM 30-65 / PUMP 124 SPM = 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2590/2380 PSI / MUD MOTOR RPM 88 / PU/SO/ROT WT201/160/180/ TORQUE ON/OFF BOTTOM 9K/6K / SLIDE 32' IN .50 MIN 8% OF FOOTAGE DRILLED & 16% OF HRS DRILLED/ MW 10.4 VIS 34 / 10-15' FLARE / NO MUD LOSS
	6:00 - 14:30	8.50	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F/ 8 570 TO 9,042 = 472 @55.5 FPH / / WOB 16K-24K / TOP DRIVE RPM 30-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2590/2340 PSI / MUD MOTOR RPM 79 / PU/SO/RWT218/170/189/ TORQUE ON/OFF BOTTOM 10K/7K / SLIDE 40' IN .105 MIN 9.6% OF FOOTAGE DRILLED & 21% OF HRS DRILLED/ MW 11.0 VIS 36 / 30 BBL MUD LOSS 10-15' FLARE
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F/ 9,042 TO 9,598 = 556 @61.7 FPH / / WOB 16K-24K / TOP DRIVE RPM 30-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2590/2340 PSI / MUD MOTOR RPM 79 / PU/SO/RWT218/170/189/ TORQUE ON/OFF BOTTOM 10K/7K/ MW 11.4 VIS 38 / 10' FLARE ON CONN / NO MUD LOSS
9/12/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F/ 9,598 TO 9,850 = 252 @42 FPH / / WOB 16K-25K / TOP DRIVE RPM 30-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2600/2450 PSI / MUD MOTOR RPM 79 / PU/SO/ROT WT 220/175/199/ TORQUE ON/OFF BOTTOM 9K/7K/ MW 11.4 VIS 38 / 10' FLARE ON CONN / NO MUD LOSS
	6:00 - 14:00	8.00	DRLPRO	02	D	P		DRILL/SURVEY (ROTATE) F/ 9850 TO 10,195 TD= 345 @43.1 FPH / / WOB 16K-25K / TOP DRIVE RPM 30-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2790/2480 PSI / MUD MOTOR RPM 79 / PU/SO/ROT WT 229/188/206/ TORQUE ON/OFF BOTTOM 10K/7K/ MW 11.8 VIS 38 / 10' FLARE ON CONN / NO MUD LOSS
	14:00 - 15:00	1.00	DRLPRO	05	C	P		CCH / PUMP SWEEP
	15:00 - 16:30	1.50	DRLPRO	06	E	P		WIPER TRIP TO 8000' / HOLE GOOD
	16:30 - 18:00	1.50	DRLPRO	05	C	P		CCH / F/ CASING BTMS UP 15' FLARE
	18:00 - 23:00	5.00	DRLPRO	06	D	P		TOH,NO TIGHT SPOTS,HOLE TOOK PROPER FLUID, FLOW CHECK @ CSG SHOE,PULL ROT RUBBER,,BREAK BIT LD M MTR,FUNCT TEST PIPE & BLIND RAMS
	23:00 - 23:30	0.50	CSG	14	B	P		PULL WEAR BUSHING,CHANGE TO 18' BAILS

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011	
Project: UTAH-UINTAH	Site: NBU 921-20I PAD		Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 6/25/2011		End Date: 9/13/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:30 - 0:00	0.50	CSG	12	A	P		HSM W/ RIG CREW & FRANKS WESTATES CASERS, RU CSG EQUIP
9/13/2011	0:00 - 1:30	1.50	CSG	12	A	P		HSM W/ FRANKS WESTATES & RIG CREWS R/U CASING EQUIP
	1:30 - 12:30	11.00	CSG	12	C	P		M/U FLOAT EQUIP RUN 17 JTS P-110 11.6# BT&C 4.5 CASING +224 JTS,I-80,11.6#,BT&C 4.5 CASING+ RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS / HOLDING CSG @ 10,180 FOR CIRC,& CEMENTING.
	12:30 - 14:00	1.50	CSG	05	D	P		CIRC CASING / RD WESTATES CASERS
	14:00 - 16:30	2.50	CSG	12	E	P		SAFETY MEETING (REVIEW J.S.A.) M.I.R.U. BJ EQUIPMENT / TEST PUMPS & LINES TO 5,000 PSI / PUMP 5 BBLS H2O / 10 BBL (20 SKS) SCAVENGER @10.8 ppg 3.55 yield + 516 SX LEAD CEMENT @ 11.8 ppg (PREM LITE II + .25 pps CELLO FLAKE + 5 pps KOL SEAL + .05 lb/sx STATIC FREE + 10% bwoc BENTONITE + .2% bwoc SODIUM META SILICATE + .4 % R-3 + 222.4 BBLS FRESH WATER / (13.67gal/sx, 2.42 yield) + 1100 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ + 10% SALT + .05lbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE + 256.6 BBLS H2O / (5.90 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 158 BBLS H2O + ADDITIVES / PLUG DOWN @ 16:11 HOURS / FLOATS HELD W/ 2 BBLS H2O RETURNED TO INVENTORY/ GOOD CIRC THROUGHOUT W/ 17 BBLS LEAD TO PIT LIFT PRESSURE @2940 PSI / BUMP PRESSURE TO 3682 PSI / TOP OF TAIL CEMENT CALCULATED @ 3862 / RIG DOWN CMT EQUIP'/ CSG SHOE 10,180,FC @ 10,161 TOP OF MKR JT MV 7919 ,MKR JT WASATCH 4995
	16:30 - 18:00	1.50	CSG	14	A	P		P/U BOP STACK, SET C-22 11X41/2 CASING SLIPS W 105K CUT OFF & L/D LANDING JT,PREP TO SKID , RELEASE RIG TO NBU 921-20J4BS@1800 HRS 9/13/2011

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-20IT YELLOW	**Wellbore No.**	OH
Well Name	NBU 921-20IT	**Wellbore Name**	NBU 921-20IT
Report No.	1	**Report Date**	11/4/2011
Project	UTAH-UINTAH	**Site**	NBU 921-20I PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	11/4/2011	**End Date**	11/15/2011
Spud Date	7/13/2011	**Active Datum**	RKB @4,854.00usft (above Mean Sea Level)
UWI	NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0		

1.3 General

Contractor	CASED HOLE SOLUTIONS	**Job Method**	PERFORATE	**Supervisor**	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	7,829.0 (usft)-10,037.0 (us	**Start Date/Time**	11/11/2011 12:00AM
No. of Intervals	42	**End Date/Time**	11/11/2011 12:00AM
Total Shots	0	**Net Perforation Interval**	65.00 (usft)
Avg Shot Density	0.00 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/11/2011 12:00AM	WASATCH/			7,829.0	7,830.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/11/2011 12:00AM	WASATCH/			7,848.0	7,850.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			7,866.0	7,868.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			7,898.0	7,900.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			7,920.0	7,921.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			7,965.0	7,967.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			7,994.0	7,996.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,084.0	8,086.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,158.0	8,160.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,200.0	8,202.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,236.0	8,237.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,252.0	8,253.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,278.0	8,280.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,318.0	8,320.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,388.0	8,390.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/11/2011 12:00AM	MESAVERDE/			8,414.0	8,415.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,431.0	8,432.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,476.0	8,478.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,532.0	8,534.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,588.0	8,590.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,630.0	8,632.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,659.0	8,661.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,718.0	8,720.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,806.0	8,807.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,829.0	8,830.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,924.0	8,925.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			8,964.0	8,965.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,052.0	9,054.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,399.0	9,400.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/11/2011 12:00AM	MESAVERDE/			9,420.0	9,421.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,517.0	9,518.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,540.0	9,541.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,559.0	9,560.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,574.0	9,575.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,587.0	9,588.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,628.0	9,630.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,688.0	9,690.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,718.0	9,720.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,779.0	9,780.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,802.0	9,803.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			9,822.0	9,824.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
11/11/2011 12:00AM	MESAVERDE/			10,035.0	10,037.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

3 Plots

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011
Project: UTAH-UINTAH	Site: NBU 921-20I PAD	Rig Name No: ROYAL WELL SERVICE 2/2
Event: COMPLETION	Start Date: 11/4/2011	End Date: 11/15/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/3/2011	11:00 - 14:00	3.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 22 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 41 PSI. PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 88 PSI NO COMMUNICATION WITH SURFACE CSG BLED OFF PSI. SWIFN
11/4/2011	7:00 - 9:30	2.50	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011	
Project: UTAH-UINTAH	Site: NBU 921-20I PAD		Rig Name No: ROYAL WELL SERVICE 2/2
Event: COMPLETION	Start Date: 11/4/2011		End Date: 11/15/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/7/2011	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 1)WHP 1930 PSI, BRK 3987 PSI @ 4.9 BPM. ISIP 2788 PSI, FG .72 CALC HOLES OPEN @ 38.0 BPM @ 5589 PSI = 74% HOLES OPEN. ISIP 3089 PSI, FG .75, NPI 301 PSI. MP 6361 PSI, MR 50.9 BPM, AP 5818 PSI, AR 49.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9750' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 1900 PSI, BRK 5380 PSI @ 4.8 BPM. ISIP 3044 PSI, FG .75 CALC HOLES OPEN @ 35.5 BPM @ 6341 PSI = 60% HOLES OPEN. ISIP 3183 PSI, FG .77, NPI 139 PSI. MP 6567 PSI, MR 51.2 BPM, AP 6240 PSI, AR 45.8 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9618' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 3)WHP 2000 PSI, BRK 4385 PSI @ 4.7 BPM. ISIP 3024 PSI, FG .76 CALC HOLES OPEN @ 50.4 BPM @ 6305 PSI = 89% HOLES OPEN. ISIP 3151 PSI, FG .77, NPI 127 PSI. MP 6413 PSI, MR 51.5 BPM, AP 5945 PSI, AR 50.4 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9084' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 4)WHP 1400 PSI, BRK 3975 PSI @ 4.7 BPM. ISIP 2940 PSI, FG .77 CALC HOLES OPEN @ 38.5 BPM @ 5891 PSI = 64% HOLES OPEN. ISIP 3114 PSI, FG .79, NPI 174 PSI. MP 6692 PSI, MR 49.9 BPM, AP 6074 PSI, AR 44.9 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN,

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011	
Project: UTAH-UINTAH	Site: NBU 921-20I PAD		Rig Name No: ROYAL WELL SERVICE 2/2
Event: COMPLETION	Start Date: 11/4/2011		End Date: 11/15/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8750' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 5)WHP 1200 PSI, BRK 6404 PSI @ 4.7 BPM. ISIP 2465 PSI, FG .72 CALC HOLES OPEN @ 48.4 BPM @ 5920 PSI = 77% HOLES OPEN. ISIP 2861 PSI, FG .77, NPI 396 PSI. MP 6449 PSI, MR 51.4 BPM, AP 5849 PSI, AR 49.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8564' P/U PERF AS PER PERF DESIGN. POOH. SWIFN

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011
Project: UTAH-UINTAH	Site: NBU 921-20I PAD	Rig Name No: ROYAL WELL SERVICE 2/2
Event: COMPLETION	Start Date: 11/4/2011	End Date: 11/15/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/8/2011	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 6)WHP 1675 PSI, BRK 3426 PSI @ 4.3 BPM. ISIP 2556 PSI, FG .74 CALC HOLES OPEN @ 50.8 BPM @ 5668 PSI = 90% HOLES OPEN. ISIP 2702 PSI, FG .76, NPI 146 PSI. MP 6335 PSI, MR 51.5 BPM, AP 5473 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8350' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 7)WHP 778 PSI, BRK 3105 PSI @ 4.6 BPM. ISIP 2128 PSI, FG .70. CALC HOLES OPEN @ 51.0 BPM @ 5239 PSI = 90% HOLES OPEN. ISIP 2659 PSI, FG .76, NPI 531 PSI. MP 6364 PSI, MR 51.5 BPM, AP 4928 PSI, AR 50.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8190 ' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 8)WHP 2190 PSI, BRK 2785 PSI @ 6.5 BPM. ISIP 2413 PSI, FG .74 CALC HOLES OPEN @ 50.5 BPM @ 5603 PSI = 86% HOLES OPEN. ISIP 2712 PSI, FG .78, NPI 299 PSI. MP 5741 PSI, MR 51.5 BPM, AP 4862 PSI, AR 50.8 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7951' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 9)WHP 460 PSI, BRK 2944 PSI @ 4.5 BPM. ISIP 2259 PSI, FG .73 CALC HOLES OPEN @ 48.5 BPM @ 5639 PSI = 76% HOLES OPEN. ISIP 2737 PSI, FG .79, NPI 478 PSI. MP 6429 PSI, MR 51.0 BPM, AP 5554 PSI, AR 49.9 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PU 4 1/2 CBP RIH SET KILL PLUG @ 7779 POOH RD

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011
Project: UTAH-UINTAH	Site: NBU 921-20I PAD	Rig Name No: ROYAL WELL SERVICE 2/2
Event: COMPLETION	Start Date: 11/4/2011	End Date: 11/15/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								WL SWI TOTAL SAND = 163,740 # TOTAL TOTAL CLFL = 8639 BBLS
11/11/2011	12:30 - 12:45	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE
	12:45 - 18:00	5.25	COMP	30	A	P		MIRU - SPOT EQUIP. SICP 0 PSI. NDWH, NU BOPs. RU FLOOR & TBG EQUIP. PU 3 7/8" BIT, POBS & XN NIPPLE. RIH ON 204 JTS 2 3/8" TBG. TAG FILL @ 7735'. LD 2 JTS. EOT @ 7676'. SWI - SDFWE. PREP TO D/O CBPs.
11/14/2011	6:45 - 7:00	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20IT YELLOW	Spud Conductor: 7/2/2011	Spud Date: 7/13/2011	
Project: UTAH-UINTAH	Site: NBU 921-20I PAD		Rig Name No: ROYAL WELL SERVICE 2/2
Event: COMPLETION	Start Date: 11/4/2011		End Date: 11/15/2011
Active Datum: RKB @4,854.00usft (above Mean Sea Level)	UWI: NE/SE/0/9/S/21/E/20/0/0/26/PM/S/1898/E/0/875/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 7:00	0.00	COMP	44	C	P		SICP 0 PSI. EOT @ 7676'. RU PWR SWVL & PMP. EST CIRC. PT CSG & BOPs TO 3000 PSI & HOLD 15 MIN. (150 PSI LOSS) RIH TAG FILL @ 7753'. C/O SND & D/O CBPs. HALCO CBP @ PSI FCP C/O FILL D/O CBP DIFF CBP #1 @ 7779' 26 FT 08 MIN 700 PSI 100 PSI CBP #2 @ 7951' 30 FT 06 MIN 800 PSI 100 PSI CBP #3 @ 8190' 25 FT 05 MIN 700 PSI 300 PSI CBP #4 @ 8350' 24 FT 03 MIN 700 PSI 200 PSI CBP #5 @ 8564' 30 FT 04 MIN 200 PSI 550 PSI CBP #6 @ 8750' 18 FT 03 MIN 1000 PSI 450 PSI CBP #7 @ 9104' 21 FT 07 MIN 1200 PSI 500 PSI CBP #8 @ 9618' 31 FT 04 MIN 500 PSI 500 PSI CBP #9 @ 9750' 22 FT 08 MIN 1200 PSI 600 PSI RIH & TAG FILL @ 10,120'. C/O TO 10,150'. (PBTD @ 10,158). FCP = 700 PSI. PMP 20 BBLS TMAC & CIRC WELL CLEAN. R/D PWR SWVL, R/U TBG EQUIP. LD 18 JTS ON FLOAT, (22 TOTAL ON FLOAT). LND TBG ON HNGR W/302 JTS NEW 2 3/8" 4.7# L80 TBG @ 9599.46'. R/D FLOOR & TBG EQUIP. ND BOP, DROP BALL, NUWH. PMP OFF BIT W/10 BBLS TMAC @ 2600 PSI. WAIT 30 MIN FOR BIT TO FALL TO BTM. TURN WELL TO F.B.C. KB 26' HANGER 0.83' XN NIPPLE 1.33' TBG 302 JTS = 9570.26' XN NIPPLE @ 9597.08' EOT @ 9599.46' (324 JTS DLVRD - 0 JTS RTND) TWTR = 8774 BBLS TWR = 1000 BBLS TWLTR = 7774 SICP = 1400 PSI, SITP = 0 PSI. wWELL TURNED TO SALES @ 1400 HR ON 11/14/11 - 740 MCFD, 1920 BWPD, CP 2164#, FTP 1942#, CK 20/64"
	14:00 - 14:00	0.00	PROD	50				

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20I PAD
Well: NBU 921-20IT
Wellbore: NBU 921-20IT
Section:
SHL:
Design: NBU 921-20IT (wp03)
Latitude: 40.019508
Longitude: -109.568592
GL: 4828.01
KB: 26' rkb + 4828' gl @ 4854.01ft (H&P 298)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4964.01	4964.51	Top Wasatch
7931.02	7931.56	Top Mesaverde
8970.02	8970.58	MVU21
9464.02	9464.58	MVL1

WELL DETAILS: NBU 921-20IT

+N/-S	+E/-W	Northing	Ground Level: Easting	4828.01 Latittude	Longitude	Slot
0.00	0.00	14536367.50	2041187.57	40.019508	-109.568592	

CASING DETAILS

TVD	MD	Name	Size
2714.01	2714.43	9 5/8"	9-5/8

T M

Azimuths to True North
Magnetic North: 11.37°

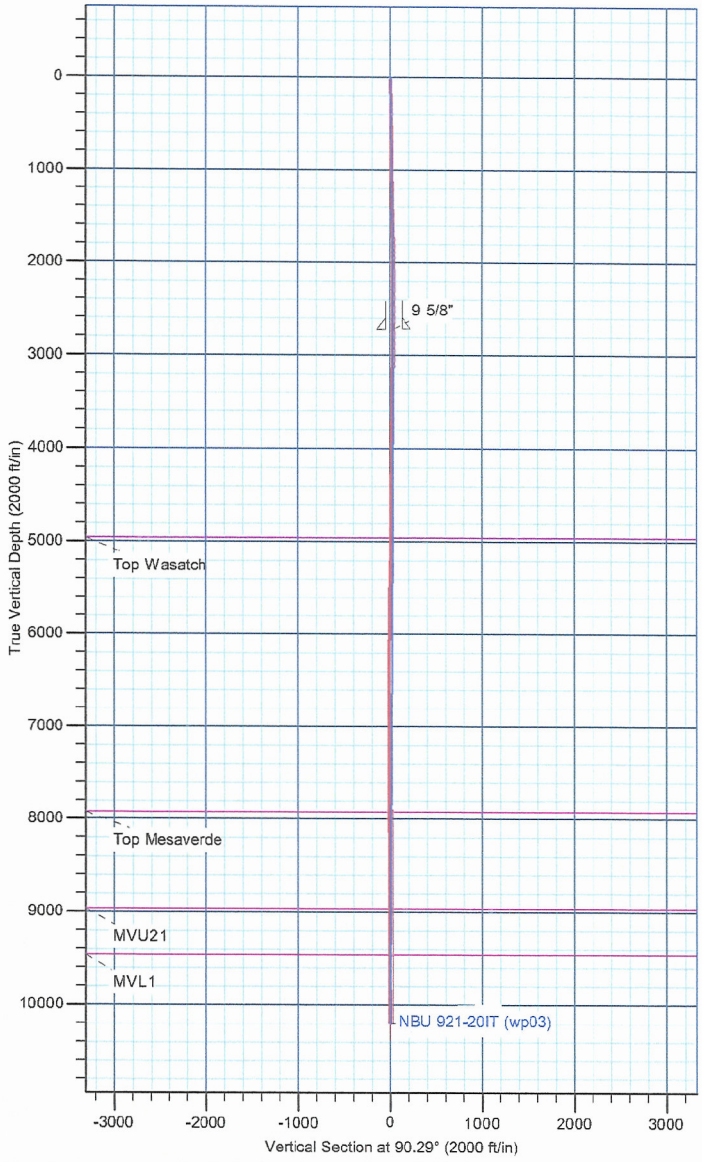
Magnetic Field
Strength: 52572.3snT
Dip Angle: 65.93°
Date: 4/23/2009
Model: IGRF200510

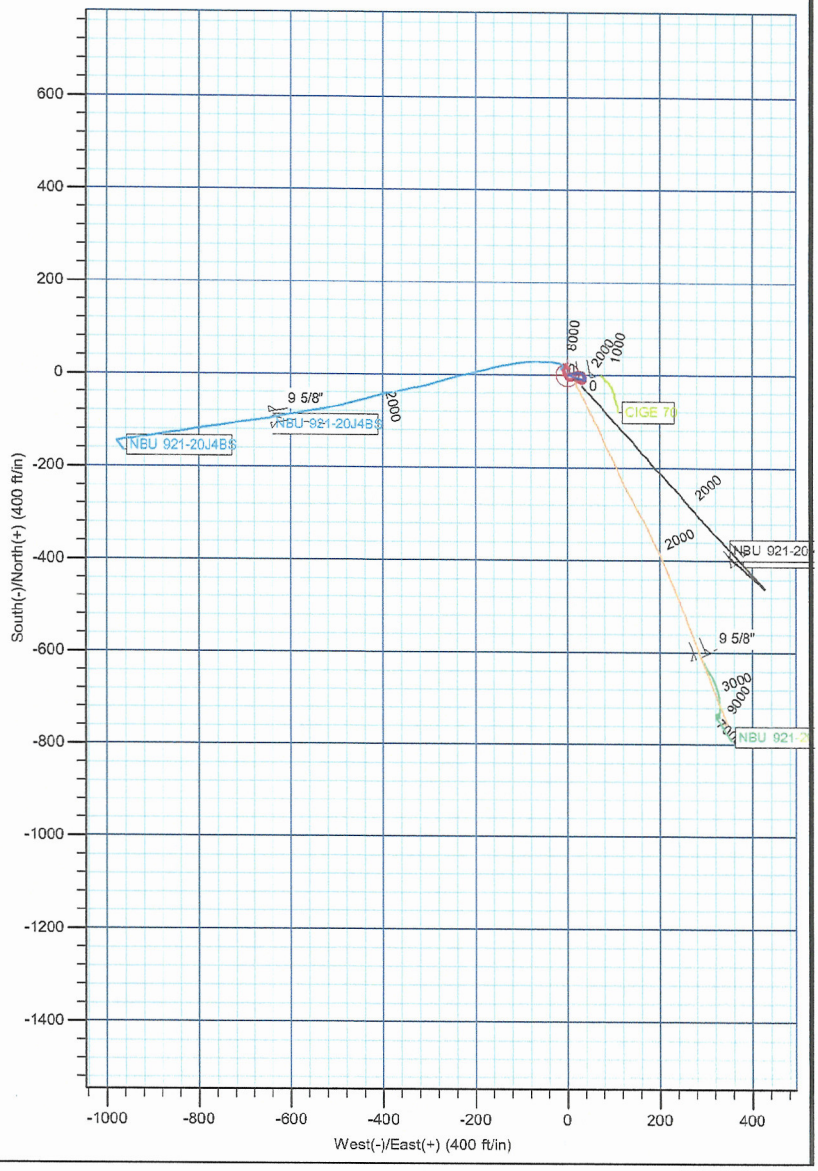
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
NBU 921-20IT BHL	10199.02	0.00	0.00	14536367.50	2041187.57	40.019508	-109.568592	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2682.01	1.56	170.39	2681.59	-7.85	36.72	0.00	0.00	36.76
2815.01	1.56	170.39	2814.55	-11.42	37.33	0.00	0.00	37.38
2901.37	0.31	288.53	2900.90	-12.50	37.30	2.00	170.93	37.36
10199.60	0.31	288.53	10199.02	0.00	0.00	0.00	0.00	0.00





Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20IT
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Site:	UINTAH_NBU 921-20I PAD	**MD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Well:	NBU 921-20IT	**North Reference:**	True
Wellbore:	NBU 921-20IT	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20IT	**Database:**	edmp

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_NBU 921-20I PAD				
Site Position:		**Northing:**	14,536,367.50 usft	**Latitude:**	40.019508
From:	Lat/Long	**Easting:**	2,041,187.57 usft	**Longitude:**	-109.568592
Position Uncertainty:	0.00 ft	**Slot Radius:**	0 "	**Grid Convergence:**	0.92 °

Well	NBU 921-20IT					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,536,367.50 usft	**Latitude:**	40.019508
	+E/-W	0.00 ft	**Easting:**	2,041,187.57 usft	**Longitude:**	-109.568592
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,828.01 ft

Wellbore	NBU 921-20IT				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	4/23/2009	11.37	65.93	52,572

Design	NBU 921-20IT					
Audit Notes:						
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**		22.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**		
	22.00	0.00	0.00	90.29		

Survey Program **Date** 10/4/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
168.00	2,682.01	Survey #1 (NBU 921-20IT)	MWD	MWD - Standard
2,755.01	10,195.02	Survey #2 (NBU 921-20IT)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22.00	0.00	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00
168.00	0.78	66.43	168.00	0.40	0.91	0.91	0.53	0.53	0.00
372.00	1.19	87.52	371.97	1.04	4.30	4.29	0.27	0.20	10.34
522.00	1.25	76.64	521.93	1.49	7.45	7.44	0.16	0.04	-7.25
822.00	1.00	70.02	821.88	3.14	13.09	13.08	0.09	-0.08	-2.21
1,122.00	1.00	72.27	1,121.83	4.83	18.05	18.02	0.01	0.00	0.75
1,422.00	0.88	94.52	1,421.79	5.45	22.84	22.81	0.13	-0.04	7.42
1,722.00	1.13	99.27	1,721.75	4.79	28.05	28.03	0.09	0.08	1.58
2,022.00	0.69	127.52	2,021.71	3.21	32.40	32.39	0.21	-0.15	9.42
2,322.00	1.00	160.51	2,321.68	-0.36	34.71	34.71	0.19	0.10	11.00

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20IT
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Site:	UINTAH_NBU 921-20I PAD	**MD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Well:	NBU 921-20IT	**North Reference:**	True
Wellbore:	NBU 921-20IT	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20IT	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,622.01	1.38	166.64	2,621.61	-6.34	36.42	36.45	0.13	0.13	2.04
2,682.01	1.56	170.39	2,681.60	-7.85	36.72	36.76	0.34	0.30	6.25
tie on point									
2,755.01	1.56	181.96	2,754.57	-9.82	36.85	36.90	0.43	0.00	15.85
2,849.01	1.78	181.93	2,848.53	-12.56	36.76	36.82	0.23	0.23	-0.03
2,944.01	1.63	219.03	2,943.49	-15.08	35.86	35.94	1.15	-0.16	39.05
3,038.01	2.56	250.37	3,037.43	-16.82	33.04	33.13	1.54	0.99	33.34
3,133.01	1.19	236.87	3,132.38	-18.08	30.22	30.31	1.51	-1.44	-14.21
3,227.01	0.50	344.00	3,226.37	-18.22	29.29	29.38	1.51	-0.73	113.97
3,322.01	1.56	329.75	3,321.35	-16.70	28.52	28.60	1.14	1.12	-15.00
3,417.01	0.94	297.00	3,416.33	-15.23	27.17	27.25	0.97	-0.65	-34.47
3,511.01	0.88	238.75	3,510.32	-15.25	25.87	25.95	0.94	-0.06	-61.97
3,606.01	1.19	282.62	3,605.31	-15.42	24.28	24.36	0.87	0.33	46.18
3,700.01	1.06	329.50	3,699.29	-14.45	22.89	22.96	0.96	-0.14	49.87
3,794.01	0.56	294.25	3,793.28	-13.52	22.03	22.10	0.73	-0.53	-37.50
3,889.01	0.50	243.00	3,888.28	-13.51	21.24	21.31	0.49	-0.06	-53.95
3,983.01	0.50	292.50	3,982.28	-13.54	20.49	20.56	0.45	0.00	52.66
4,078.01	1.13	333.12	4,077.27	-12.55	19.69	19.75	0.86	0.66	42.76
4,172.01	1.06	294.50	4,171.25	-11.36	18.48	18.53	0.77	-0.07	-41.09
4,267.01	0.50	265.62	4,266.24	-11.03	17.26	17.32	0.70	-0.59	-30.40
4,361.01	0.31	342.12	4,360.24	-10.82	16.78	16.83	0.56	-0.20	81.38
4,456.01	0.75	351.25	4,455.24	-9.96	16.60	16.65	0.47	0.46	9.61
4,550.01	0.44	165.25	4,549.23	-9.70	16.60	16.65	1.26	-0.33	185.11
4,645.01	1.25	271.12	4,644.23	-10.03	15.66	15.71	1.51	0.85	111.44
4,740.01	1.44	293.87	4,739.20	-9.53	13.53	13.58	0.59	0.20	23.95
4,834.01	1.06	249.50	4,833.18	-9.36	11.64	11.68	1.07	-0.40	-47.20
4,928.01	1.06	205.62	4,927.17	-10.44	10.45	10.50	0.84	0.00	-46.68
5,023.01	1.06	245.87	5,022.15	-11.60	9.26	9.32	0.77	0.00	42.37
5,118.01	2.19	286.12	5,117.11	-11.45	6.72	6.78	1.62	1.19	42.37
5,212.01	1.94	282.25	5,211.05	-10.62	3.44	3.49	0.30	-0.27	-4.12
5,307.01	1.44	279.62	5,306.01	-10.07	0.69	0.74	0.53	-0.53	-2.77
5,401.01	2.13	332.62	5,399.97	-8.33	-1.28	-1.24	1.82	0.73	56.38
5,495.01	1.88	334.75	5,493.91	-5.38	-2.74	-2.71	0.28	-0.27	2.27
5,590.01	1.63	338.37	5,588.87	-2.71	-3.90	-3.89	0.29	-0.26	3.81
5,684.01	0.81	335.50	5,682.85	-0.87	-4.67	-4.67	0.87	-0.87	-3.05
5,779.01	1.88	337.12	5,777.82	1.18	-5.56	-5.56	1.13	1.13	1.71
5,873.01	1.63	343.25	5,871.78	3.88	-6.54	-6.56	0.33	-0.27	6.52
5,968.01	1.44	337.62	5,966.74	6.28	-7.38	-7.42	0.26	-0.20	-5.93
6,062.01	1.31	347.37	6,060.72	8.42	-8.07	-8.11	0.28	-0.14	10.37
6,156.01	0.88	346.62	6,154.70	10.17	-8.47	-8.52	0.46	-0.46	-0.80
6,251.01	0.94	355.50	6,249.69	11.66	-8.70	-8.76	0.16	0.06	9.35
6,345.01	0.69	356.22	6,343.68	12.99	-8.80	-8.86	0.27	-0.27	0.77
6,440.01	0.31	341.62	6,438.67	13.80	-8.92	-8.99	0.42	-0.40	-15.37

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20IT
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Site:	UINTAH_NBU 921-20I PAD	**MD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Well:	NBU 921-20IT	**North Reference:**	True
Wellbore:	NBU 921-20IT	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20IT	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,534.01	0.00	2.75	6,532.67	14.05	-9.00	-9.07	0.33	-0.33	0.00
6,628.01	0.19	124.62	6,626.67	13.96	-8.87	-8.94	0.20	0.20	0.00
6,723.01	0.63	161.75	6,721.67	13.37	-8.58	-8.64	0.52	0.46	39.08
6,818.01	0.50	345.62	6,816.67	13.28	-8.52	-8.58	1.19	-0.14	-185.40
6,912.01	0.19	267.12	6,910.67	13.67	-8.77	-8.84	0.53	-0.33	-83.51
7,007.01	0.56	201.75	7,005.67	13.23	-9.10	-9.17	0.54	0.39	-68.81
7,101.01	0.75	206.50	7,099.66	12.25	-9.55	-9.61	0.21	0.20	5.05
7,196.01	0.31	355.87	7,194.66	11.95	-9.84	-9.90	1.08	-0.46	157.23
7,291.01	0.69	353.50	7,289.66	12.77	-9.93	-9.99	0.40	0.40	-2.49
7,385.01	0.44	39.25	7,383.65	13.62	-9.76	-9.83	0.53	-0.27	48.67
7,480.02	1.69	328.87	7,478.64	15.10	-10.26	-10.33	1.68	1.32	-74.08
7,574.02	1.13	355.57	7,572.61	17.21	-11.04	-11.13	0.90	-0.60	28.40
7,669.02	0.81	359.00	7,667.60	18.81	-11.13	-11.22	0.34	-0.34	3.61
7,763.02	0.63	9.62	7,761.59	19.99	-11.05	-11.15	0.24	-0.19	11.30
7,858.02	0.25	46.99	7,856.59	20.64	-10.81	-10.92	0.48	-0.40	39.34
7,952.02	0.25	88.00	7,950.58	20.79	-10.46	-10.56	0.19	0.00	43.63
8,047.02	0.50	100.62	8,045.58	20.72	-9.84	-9.95	0.28	0.26	13.28
8,142.02	0.69	104.75	8,140.58	20.50	-8.88	-8.99	0.20	0.20	4.35
8,236.02	0.94	94.25	8,234.57	20.30	-7.57	-7.67	0.31	0.27	-11.17
8,331.02	1.38	99.25	8,329.55	20.06	-5.66	-5.76	0.47	0.46	5.26
8,426.02	1.00	122.50	8,424.53	19.43	-3.83	-3.93	0.64	-0.40	24.47
8,520.02	0.63	136.12	8,518.52	18.61	-2.78	-2.88	0.44	-0.39	14.49
8,614.02	0.88	139.75	8,612.51	17.69	-1.96	-2.05	0.27	0.27	3.86
8,709.02	0.19	30.00	8,707.51	17.27	-1.41	-1.50	1.01	-0.73	-115.53
8,804.02	0.25	332.37	8,802.51	17.59	-1.43	-1.51	0.23	0.06	-60.66
8,898.02	0.31	288.00	8,896.51	17.85	-1.76	-1.85	0.23	0.06	-47.20
8,992.02	0.19	236.12	8,990.51	17.84	-2.13	-2.22	0.26	-0.13	-55.19
9,087.02	0.13	329.75	9,085.51	17.85	-2.32	-2.41	0.25	-0.06	98.56
9,181.02	0.25	313.12	9,179.51	18.08	-2.52	-2.61	0.14	0.13	-17.69
9,275.02	0.44	260.00	9,273.50	18.16	-3.03	-3.12	0.37	0.20	-56.51
9,370.02	0.50	216.62	9,368.50	17.76	-3.63	-3.72	0.37	0.06	-45.66
9,464.02	0.50	177.50	9,462.50	17.02	-3.86	-3.95	0.36	0.00	-41.62
9,559.02	0.44	140.50	9,557.50	16.33	-3.61	-3.69	0.32	-0.06	-38.95
9,653.02	0.13	117.50	9,651.49	16.00	-3.29	-3.37	0.35	-0.33	-24.47
9,748.02	0.31	95.75	9,746.49	15.92	-2.94	-3.02	0.21	0.19	-22.89
9,842.02	0.44	99.50	9,840.49	15.84	-2.33	-2.41	0.14	0.14	3.99
9,937.02	0.38	104.75	9,935.49	15.70	-1.66	-1.74	0.07	-0.06	5.53
10,032.02	0.75	122.37	10,030.49	15.29	-0.83	-0.91	0.43	0.39	18.55
10,126.02	1.34	112.55	10,124.47	14.53	0.70	0.63	0.65	0.63	-10.45
last mwd									
10,195.02	1.77	105.34	10,193.44	13.94	2.48	2.40	0.68	0.62	-10.45
projection									

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20IT
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Site:	UINTAH_NBU 921-20I PAD	**MD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Well:	NBU 921-20IT	**North Reference:**	True
Wellbore:	NBU 921-20IT	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20IT	**Database:**	edmp

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,682.01	2,681.60	-7.85	36.72	tie on point
10,126.02	10,124.47	14.53	0.70	last mwd
10,195.02	10,193.44	13.94	2.48	projection

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-20I PAD
NBU 921-20IT

NBU 921-20IT

Design: NBU 921-20IT

Survey Report - Geographic

04 October, 2011

Anadarko Petroleum Corp

Survey Report - Geographic

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20IT
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Site:	UINTAH_NBU 921-20I PAD	**MD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Well:	NBU 921-20IT	**North Reference:**	True
Wellbore:	NBU 921-20IT	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20IT	**Database:**	edmp

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_NBU 921-20I PAD

Site Position:		**Northing:**	14,536,367.50 usft	**Latitude:**	40.019508
From:	Lat/Long	**Easting:**	2,041,187.57 usft	**Longitude:**	-109.568592
Position Uncertainty:	0.00 ft	**Slot Radius:**	0 "	**Grid Convergence:**	0.92 °

Well NBU 921-20IT

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,536,367.50 usft	**Latitude:**	40.019508
	+E/-W	0.00 ft	**Easting:**	2,041,187.57 usft	**Longitude:**	-109.568592
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,828.01 ft

Wellbore NBU 921-20IT

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	4/23/2009	11.37	65.93	52,572

Design NBU 921-20IT

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	22.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	22.00	0.00	0.00	90.29

Survey Program **Date** 10/4/2011

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
168.00	2,682.01	Survey #1 (NBU 921-20IT)	MWD	MWD - Standard
2,755.01	10,195.02	Survey #2 (NBU 921-20IT)	MWD	MWD - Standard

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Map Northing (usft)**	**Map Easting (usft)**	**Latitude**	**Longitude**
22.00	0.00	0.00	22.00	0.00	0.00	14,536,367.50	2,041,187.57	40.019508	-109.568592
168.00	0.78	66.43	168.00	0.40	0.91	14,536,367.92	2,041,188.47	40.019509	-109.568589
372.00	1.19	87.52	371.97	1.04	4.30	14,536,368.62	2,041,191.85	40.019511	-109.568577
522.00	1.25	76.64	521.93	1.49	7.45	14,536,369.11	2,041,194.99	40.019512	-109.568566
822.00	1.00	70.02	821.88	3.14	13.09	14,536,370.85	2,041,200.61	40.019517	-109.568546
1,122.00	1.00	72.27	1,121.83	4.83	18.05	14,536,372.62	2,041,205.53	40.019521	-109.568528
1,422.00	0.88	94.52	1,421.79	5.45	22.84	14,536,373.32	2,041,210.31	40.019523	-109.568511
1,722.00	1.13	99.27	1,721.75	4.79	28.05	14,536,372.74	2,041,215.54	40.019521	-109.568492
2,022.00	0.69	127.52	2,021.71	3.21	32.40	14,536,371.24	2,041,219.92	40.019517	-109.568477
2,322.00	1.00	160.51	2,321.68	-0.36	34.71	14,536,367.71	2,041,222.28	40.019507	-109.568468
2,622.01	1.38	166.64	2,621.61	-6.34	36.42	14,536,361.75	2,041,224.08	40.019491	-109.568462

Anadarko Petroleum Corp

Survey Report - Geographic

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20IT
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Site:	UINTAH_NBU 921-20I PAD	**MD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Well:	NBU 921-20IT	**North Reference:**	True
Wellbore:	NBU 921-20IT	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20IT	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,682.01	1.56	170.39	2,681.60	-7.85	36.72	14,536,360.25	2,041,224.41	40.019487	-109.568461
tie on point									
2,755.01	1.56	181.96	2,754.57	-9.82	36.85	14,536,358.28	2,041,224.57	40.019481	-109.568461
2,849.01	1.78	181.93	2,848.53	-12.56	36.76	14,536,355.54	2,041,224.53	40.019474	-109.568461
2,944.01	1.63	219.03	2,943.49	-15.08	35.86	14,536,353.00	2,041,223.67	40.019467	-109.568464
3,038.01	2.56	250.37	3,037.43	-16.82	33.04	14,536,351.21	2,041,220.88	40.019462	-109.568474
3,133.01	1.19	236.87	3,132.38	-18.08	30.22	14,536,349.91	2,041,218.07	40.019458	-109.568484
3,227.01	0.50	344.00	3,226.37	-18.22	29.29	14,536,349.76	2,041,217.14	40.019458	-109.568488
3,322.01	1.56	329.75	3,321.35	-16.70	28.52	14,536,351.26	2,041,216.35	40.019462	-109.568490
3,417.01	0.94	297.00	3,416.33	-15.23	27.17	14,536,352.71	2,041,214.98	40.019466	-109.568495
3,511.01	0.88	238.75	3,510.32	-15.25	25.87	14,536,352.67	2,041,213.68	40.019466	-109.568500
3,606.01	1.19	282.62	3,605.31	-15.42	24.28	14,536,352.48	2,041,212.10	40.019466	-109.568506
3,700.01	1.06	329.50	3,699.29	-14.45	22.89	14,536,353.42	2,041,210.69	40.019468	-109.568511
3,794.01	0.56	294.25	3,793.28	-13.52	22.03	14,536,354.34	2,041,209.81	40.019471	-109.568514
3,889.01	0.50	243.00	3,888.28	-13.51	21.24	14,536,354.33	2,041,209.02	40.019471	-109.568516
3,983.01	0.50	292.50	3,982.28	-13.54	20.49	14,536,354.29	2,041,208.28	40.019471	-109.568519
4,078.01	1.13	333.12	4,077.27	-12.55	19.69	14,536,355.27	2,041,207.45	40.019474	-109.568522
4,172.01	1.06	294.50	4,171.25	-11.36	18.48	14,536,356.44	2,041,206.22	40.019477	-109.568526
4,267.01	0.50	265.62	4,266.24	-11.03	17.26	14,536,356.75	2,041,205.01	40.019478	-109.568531
4,361.01	0.31	342.12	4,360.24	-10.82	16.78	14,536,356.96	2,041,204.52	40.019478	-109.568532
4,456.01	0.75	351.25	4,455.24	-9.96	16.60	14,536,357.81	2,041,204.33	40.019481	-109.568533
4,550.01	0.44	165.25	4,549.23	-9.70	16.60	14,536,358.07	2,041,204.32	40.019481	-109.568533
4,645.01	1.25	271.12	4,644.23	-10.03	15.66	14,536,357.72	2,041,203.39	40.019481	-109.568536
4,740.01	1.44	293.87	4,739.20	-9.53	13.53	14,536,358.19	2,041,201.25	40.019482	-109.568544
4,834.01	1.06	249.50	4,833.18	-9.36	11.64	14,536,358.34	2,041,199.35	40.019482	-109.568551
4,928.01	1.06	205.62	4,927.17	-10.44	10.45	14,536,357.23	2,041,198.18	40.019479	-109.568555
5,023.01	1.06	245.87	5,022.15	-11.60	9.26	14,536,356.06	2,041,197.02	40.019476	-109.568559
5,118.01	2.19	286.12	5,117.11	-11.45	6.72	14,536,356.16	2,041,194.47	40.019477	-109.568568
5,212.01	1.94	282.25	5,211.05	-10.62	3.44	14,536,356.94	2,041,191.18	40.019479	-109.568580
5,307.01	1.44	279.62	5,306.01	-10.07	0.69	14,536,357.44	2,041,188.42	40.019480	-109.568590
5,401.01	2.13	332.62	5,399.97	-8.33	-1.28	14,536,359.16	2,041,186.42	40.019485	-109.568597
5,495.01	1.88	334.75	5,493.91	-5.38	-2.74	14,536,362.08	2,041,184.91	40.019493	-109.568602
5,590.01	1.63	338.37	5,588.87	-2.71	-3.90	14,536,364.73	2,041,183.71	40.019501	-109.568606
5,684.01	0.81	335.50	5,682.85	-0.87	-4.67	14,536,366.56	2,041,182.91	40.019506	-109.568609
5,779.01	1.88	337.12	5,777.82	1.18	-5.56	14,536,368.59	2,041,181.99	40.019511	-109.568612
5,873.01	1.63	343.25	5,871.78	3.88	-6.54	14,536,371.28	2,041,180.97	40.019519	-109.568616
5,968.01	1.44	337.62	5,966.74	6.28	-7.38	14,536,373.66	2,041,180.08	40.019525	-109.568619
6,062.01	1.31	347.37	6,060.72	8.42	-8.07	14,536,375.79	2,041,179.36	40.019531	-109.568621
6,156.01	0.88	346.62	6,154.70	10.17	-8.47	14,536,377.54	2,041,178.93	40.019536	-109.568623
6,251.01	0.94	355.50	6,249.69	11.66	-8.70	14,536,379.02	2,041,178.68	40.019540	-109.568623
6,345.01	0.69	356.22	6,343.68	12.99	-8.80	14,536,380.35	2,041,178.56	40.019544	-109.568624
6,440.01	0.31	341.62	6,438.67	13.80	-8.92	14,536,381.16	2,041,178.43	40.019546	-109.568624
6,534.01	0.00	2.75	6,532.67	14.05	-9.00	14,536,381.40	2,041,178.35	40.019547	-109.568624
6,628.01	0.19	124.62	6,626.67	13.96	-8.87	14,536,381.32	2,041,178.48	40.019546	-109.568624
6,723.01	0.63	161.75	6,721.67	13.37	-8.58	14,536,380.73	2,041,178.78	40.019545	-109.568623
6,818.01	0.50	345.62	6,816.67	13.28	-8.52	14,536,380.64	2,041,178.84	40.019545	-109.568623
6,912.01	0.19	267.12	6,910.67	13.67	-8.77	14,536,381.03	2,041,178.58	40.019546	-109.568624
7,007.01	0.56	201.75	7,005.67	13.23	-9.10	14,536,380.58	2,041,178.25	40.019544	-109.568625
7,101.01	0.75	206.50	7,099.66	12.25	-9.55	14,536,379.60	2,041,177.83	40.019542	-109.568626
7,196.01	0.31	355.87	7,194.66	11.95	-9.84	14,536,379.29	2,041,177.53	40.019541	-109.568627
7,291.01	0.69	353.50	7,289.66	12.77	-9.93	14,536,380.12	2,041,177.44	40.019543	-109.568628
7,385.01	0.44	39.25	7,383.65	13.62	-9.76	14,536,380.96	2,041,177.59	40.019545	-109.568627
7,480.02	1.69	328.87	7,478.64	15.10	-10.26	14,536,382.43	2,041,177.07	40.019550	-109.568629
7,574.02	1.13	355.57	7,572.61	17.21	-11.04	14,536,384.53	2,041,176.25	40.019555	-109.568632
7,669.02	0.81	359.00	7,667.60	18.81	-11.13	14,536,386.14	2,041,176.14	40.019560	-109.568632

Anadarko Petroleum Corp

Survey Report - Geographic

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20IT
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Site:	UINTAH_NBU 921-20I PAD	**MD Reference:**	26' rkb + 4828' gl @ 4854.01ft (H&P 298)
Well:	NBU 921-20IT	**North Reference:**	True
Wellbore:	NBU 921-20IT	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20IT	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,763.02	0.63	9.62	7,761.59	19.99	-11.05	14,536,387.31	2,041,176.20	40.019563	-109.568632
7,858.02	0.25	46.99	7,856.59	20.64	-10.81	14,536,387.97	2,041,176.42	40.019565	-109.568631
7,952.02	0.25	88.00	7,950.58	20.79	-10.46	14,536,388.12	2,041,176.78	40.019565	-109.568630
8,047.02	0.50	100.62	8,045.58	20.72	-9.84	14,536,388.06	2,041,177.39	40.019565	-109.568627
8,142.02	0.69	104.75	8,140.58	20.50	-8.88	14,536,387.86	2,041,178.36	40.019564	-109.568624
8,236.02	0.94	94.25	8,234.57	20.30	-7.57	14,536,387.68	2,041,179.68	40.019564	-109.568619
8,331.02	1.38	99.25	8,329.55	20.06	-5.66	14,536,387.47	2,041,181.58	40.019563	-109.568612
8,426.02	1.00	122.50	8,424.53	19.43	-3.83	14,536,386.87	2,041,183.42	40.019561	-109.568606
8,520.02	0.63	136.12	8,518.52	18.61	-2.78	14,536,386.07	2,041,184.49	40.019559	-109.568602
8,614.02	0.88	139.75	8,612.51	17.69	-1.96	14,536,385.16	2,041,185.33	40.019557	-109.568599
8,709.02	0.19	30.00	8,707.51	17.27	-1.41	14,536,384.75	2,041,185.88	40.019556	-109.568597
8,804.02	0.25	332.37	8,802.51	17.59	-1.43	14,536,385.07	2,041,185.86	40.019556	-109.568597
8,898.02	0.31	288.00	8,896.51	17.85	-1.76	14,536,385.32	2,041,185.52	40.019557	-109.568599
8,992.02	0.19	236.12	8,990.51	17.84	-2.13	14,536,385.31	2,041,185.15	40.019557	-109.568600
9,087.02	0.13	329.75	9,085.51	17.85	-2.32	14,536,385.31	2,041,184.96	40.019557	-109.568601
9,181.02	0.25	313.12	9,179.51	18.08	-2.52	14,536,385.54	2,041,184.76	40.019558	-109.568601
9,275.02	0.44	260.00	9,273.50	18.16	-3.03	14,536,385.61	2,041,184.25	40.019558	-109.568603
9,370.02	0.50	216.62	9,368.50	17.76	-3.63	14,536,385.20	2,041,183.65	40.019557	-109.568605
9,464.02	0.50	177.50	9,462.50	17.02	-3.86	14,536,384.46	2,041,183.43	40.019555	-109.568606
9,559.02	0.44	140.50	9,557.50	16.33	-3.61	14,536,383.77	2,041,183.70	40.019553	-109.568605
9,653.02	0.13	117.50	9,651.49	16.00	-3.29	14,536,383.45	2,041,184.02	40.019552	-109.568604
9,748.02	0.31	95.75	9,746.49	15.92	-2.94	14,536,383.38	2,041,184.38	40.019552	-109.568603
9,842.02	0.44	99.50	9,840.49	15.84	-2.33	14,536,383.30	2,041,184.99	40.019552	-109.568601
9,937.02	0.38	104.75	9,935.49	15.70	-1.66	14,536,383.17	2,041,185.65	40.019551	-109.568598
10,032.02	0.75	122.37	10,030.49	15.29	-0.83	14,536,382.77	2,041,186.49	40.019550	-109.568595
10,126.02	1.34	112.55	10,124.47	14.53	0.70	14,536,382.05	2,041,188.04	40.019548	-109.568590
last mwd									
10,195.02	1.77	105.34	10,193.44	13.94	2.48	14,536,381.48	2,041,189.82	40.019546	-109.568583
projection									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,682.01	2,681.60	-7.85	36.72	tie on point
10,126.02	10,124.47	14.53	0.70	last mwd
10,195.02	10,193.44	13.94	2.48	projection

Checked By: _____ Approved By: _____ Date: _____